

SAFETY DATA SHEET

BREAXIT® EC2010A

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BREAXIT® EC2010A

Other means of identification : Not applicable.

Recommended use : DEMULSIFIER

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Champion Company
7705 Highway 90-A
Sugar Land, Texas 77478
USA
TEL: (281) 263-7000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 02/09/2015

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

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

Aspiration hazard : Category 1

GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements :

- Highly flammable liquid and vapour.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**

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Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection. Use personal protective equipment as required.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

| Chemical Name | CAS-No. | Concentration: (%) |
|---------------------------|------------------------|--------------------|
| Heavy Aromatic Distillate | 64742-94-5, 64742-48-9 | 30 - 60 |
| Isopropanol | 67-63-0 | 5 - 10 |
| Ethoxylated 4-Nonylphenol | 26027-38-3 | 5 - 10 |
| Naphthalene | 91-20-3 | 5 - 10 |
| Ethylbenzene | 100-41-4 | 5 - 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 - 5 |
| Aliphatic hydrocarbon | Proprietary | 1 - 5 |
| Xylene | 1330-20-7 | 1 - 5 |
| Methanol | 67-56-1 | 1 - 5 |
| Ethoxylated Nonylphenol | 9016-45-9 | 1 - 5 |
| Toluene | 108-88-3 | 0.1 - 1 |

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

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Use a mild soap if available. Wash clothing before reuse.
Thoroughly clean shoes before reuse. Get medical attention.

- If swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Fire Hazard
Keep away from heat and sources of ignition.
Flash back possible over considerable distance.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides nitrogen oxides (NOx)
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. 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). For large spills, dike spilled

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material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Suitable material : Keep in properly labelled containers.
- Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---------------------------|------------------------|------------------|------------------------------------|-----------|
| Heavy Aromatic Distillate | 64742-94-5, 64742-48-9 | TWA | 500 ppm 2,000 mg/m ³ | OSHA Z1 |
| | | TWA | 200 mg/m ³ | ACGIH |
| Isopropanol | 67-63-0 | TWA | 200 ppm | ACGIH |
| | | STEL | 400 ppm | ACGIH |
| | | TWA | 400 ppm 980 mg/m ³ | NIOSH REL |
| | | STEL | 500 ppm 1,225 mg/m ³ | NIOSH REL |
| | | TWA | 400 ppm 980 mg/m ³ | OSHA Z1 |
| | | | | |
| Naphthalene | 91-20-3 | TWA | 10 ppm | ACGIH |
| | | STEL | 15 ppm | ACGIH |
| | | TWA | 10 ppm 50 mg/m ³ | NIOSH REL |
| | | STEL | 15 ppm 75 mg/m ³ | NIOSH REL |
| | | TWA | 10 ppm 50 mg/m ³ | OSHA Z1 |
| | | | | |
| Ethylbenzene | 100-41-4 | TWA | 20 ppm | ACGIH |
| | | TWA | 100 ppm 435 mg/m ³ | NIOSH REL |
| | | STEL | 125 ppm 545 mg/m ³ | NIOSH REL |
| | | TWA | 100 ppm 435 mg/m ³ | OSHA Z1 |
| 1,2,4-Trimethylbenzene | 95-63-6 | TWA | 25 ppm | NIOSH REL |

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| | | | | |
|----------|-----------|------|----------------------|-----------|
| | | | 125 mg/m3 | |
| Xylene | 1330-20-7 | TWA | 100 ppm 435 mg/m3 | OSHA Z1 |
| | | TWA | 100 ppm | ACGIH |
| | | STEL | 150 ppm | ACGIH |
| Methanol | 67-56-1 | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |
| | | TWA | 200 ppm 260 mg/m3 | NIOSH REL |
| | | STEL | 250 ppm 325 mg/m3 | NIOSH REL |
| | | TWA | 200 ppm 260 mg/m3 | OSHA Z1 |
| Toluene | 108-88-3 | TWA | 20 ppm | ACGIH |
| | | TWA | 100 ppm 375 mg/m3 | NIOSH REL |
| | | STEL | 150 ppm 560 mg/m3 | NIOSH REL |
| | | TWA | 200 ppm | OSHA/Z2 |
| | | CEIL | 300 ppm | OSHA/Z2 |
| | | Peak | 500 ppm | OSHA/Z2 |

Engineering measures : Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Wear suitable protective clothing.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.
Wash face, hands and any exposed skin thoroughly after handling.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : dark amber
Odour : hydrocarbon-like
Flash point : 20 °C
Method: ASTM D 56, Tag closed cup

pH : no data available
Odour Threshold : no data available
Melting point/freezing point : POUR POINT: < -46.6 °C

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| | |
|---|-----------------------------------|
| Initial boiling point and boiling range | : no data available |
| Evaporation rate | : no data available |
| Flammability (solid, gas) | : no data available |
| Upper explosion limit | : no data available |
| Lower explosion limit | : no data available |
| Vapour pressure | : no data available |
| Relative vapour density | : no data available |
| Relative density | : 0.92 - 0.96 (15.6 °C) |
| Density | : 7.8 lb/gal |
| Water solubility | : dispersible |
| Solubility in other solvents | : no data available |
| Partition coefficient: n-octanol/water | : no data available |
| Auto-ignition temperature | : no data available |
| Thermal decomposition temperature | : no data available |
| Viscosity, dynamic | : 19 mPa.s (25 °C) |
| Viscosity, kinematic | : 13.6 mm ² /s (40 °C) |
| VOC | : no data available |

Section: 10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : Heat, flames and sparks. |
| Incompatible materials | : Oxidizing agents |
| Hazardous decomposition products | : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NO _x) |

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

| | |
|-----------|---|
| Eyes | : Causes serious eye irritation. |
| Skin | : Causes skin irritation. May cause allergic skin reaction. May cause numbness, weakness, shooting pain in stomach and/or extremities, and blindness. |
| Ingestion | : May be fatal if swallowed and enters airways. Produces |

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methemoglobin. May cause numbness, weakness, shooting pain in stomach and/or extremities, and blindness.

- Inhalation : May cause respiratory tract irritation. May cause nose, throat, and lung irritation. Inhalation may cause central nervous system effects. May cause numbness, weakness, shooting pain in stomach and/or extremities, and blindness. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.
- Chronic Exposure : Suspected of damaging fertility or the unborn child. Suspected of causing cancer.

Experience with human exposure

- Eye contact : Redness, Pain, Irritation
- Skin contact : Redness, Irritation, Allergic reactions
- Ingestion : Vomiting
- Inhalation : Respiratory irritation, Cough, Dizziness, Drowsiness

Toxicity

Product

- Acute oral toxicity : Acute toxicity estimate : 2,978 mg/kg
- Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l
Exposure time: 4 h
- Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
- Skin corrosion/irritation : no data available
- Serious eye damage/eye irritation : no data available
- Respiratory or skin sensitization : no data available

Carcinogenicity

IARC

Group 2B: Possibly carcinogenic to humans

| | |
|--------------|----------|
| Naphthalene | 91-20-3 |
| Ethylbenzene | 100-41-4 |

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

Reasonably anticipated to be a human carcinogen

| | |
|-------------|---------|
| Naphthalene | 91-20-3 |
|-------------|---------|

- Reproductive effects : no data available

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Germ cell mutagenicity : no data available
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available
Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Toxic to aquatic life with long lasting effects.

Components

Toxicity to fish : Isopropanol
LC50 Fish: 9,640 mg/l
Exposure time: 96 h

Methanol
LC50 : 15,400 mg/l
Exposure time: 96 h

Ethoxylated Nonylphenol
LC50 Fish: 1.3 mg/l
Exposure time: 96 h

Components

Toxicity to daphnia and other aquatic invertebrates : Ethylbenzene
EC50 Daphnia: 1.81 mg/l
Exposure time: 48 h

Methanol
EC50 : > 10,000 mg/l
Exposure time: 48 h

Components

Toxicity to algae : Methanol
EC50 : 22,000 mg/l
Exposure time: 72 h

Toluene
EC50 Chlamydomonas angulosa: 134 mg/l
Exposure time: 3 h

Components

Toxicity to bacteria : Methanol
> 1,000 mg/l

Toluene
EC50 Nitrosomonas Sp.: 84 mg/l
Exposure time: 24 h

Components

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Toxicity to fish (Chronic toxicity) : Methanol
NOEC: 7,900 mg/l
Exposure time: 8.3 d

Toluene
NOEC: 1.39 mg/l
Exposure time: 40 d
Species: Coho Salmon

Components

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Toluene
NOEC: 0.74 mg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia

Persistence and degradability

no data available

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air : 10 - 30%
Water : 30 - 50%
Soil : 30 - 50%

The portion in water is expected to float on the surface.

Bioaccumulative potential

Component substances have a potential to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

The presence of an RQ component (Reportable Quantity for U.S. EPA and DOT) in this product causes it to be regulated with an additional description of RQ for road, or as a class 9 for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Technical name(s) : ISOPROPANOL, ETHYLBENZENE, METHANOL
UN/ID No. : UN 1993
Transport hazard class(es) : 3
Packing group : II
Reportable Quantity (per package) : 1,746 lbs
RQ Component : Naphthalene

Air transport (IATA)

The presence of an RQ component (Reportable Quantity for U.S. EPA and DOT) in this product causes it to be regulated with an additional description of RQ for road, or as a class 9 for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Technical name(s) : ISOPROPANOL, ETHYLBENZENE, METHANOL
UN/ID No. : UN 1993
Transport hazard class(es) : 3
Packing group : II
Reportable Quantity (per package) : 1,746 lbs
RQ Component : Naphthalene

Sea transport (IMDG/IMO)

Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Technical name(s) : ISOPROPANOL, ETHYLBENZENE, METHANOL
UN/ID No. : UN 1993
Transport hazard class(es) : 3
Packing group : II

*Marine pollutant : Naphthalene, 1,2,4-Trimethylbenzene

*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (in bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

Section: 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------|---------|--------------------|-----------------------------|
| Naphthalene | 91-20-3 | 100 | 1746 |

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic Health Hazard
Fire Hazard
Acute 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:

| | | |
|------------------------|-----------|----------|
| Naphthalene | 91-20-3 | 5 - 10 % |
| Ethylbenzene | 100-41-4 | 5 - 10 % |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 - 5 % |
| Xylene | 1330-20-7 | 1 - 5 % |
| Methanol | 67-56-1 | 1 - 5 % |

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

| | |
|--------------|----------|
| Naphthalene | 91-20-3 |
| Ethylbenzene | 100-41-4 |

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

| | |
|----------|----------|
| Methanol | 67-56-1 |
| Toluene | 108-88-3 |

INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

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KOREA

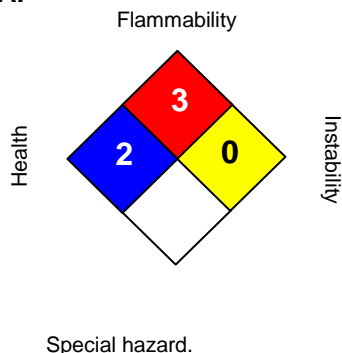
All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

| | |
|-----------------|----|
| HEALTH | 2* |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 02/09/2015
Version Number : 1.1
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this 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.

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