

**SDS Version Created by EGX CHEMICAL INC: 04/5/2017,
Supersedes MSDS: 01/20/2015**

Safety Data Sheet

Product Name: **EGX GLOBAL GOLD 50/50**

SDS No.: 0000103

Issue Date: 04/5/2015

Version No.: 004

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EGX GLOBAL GOLD 50/50

Company Name & Address: EGX CHEMICAL 1901 NW 67TH PL BULIDNG X
GAINESVILLE FL 32653

For More Information Call: 904-447-9425 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: 800-256-1934 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Harmful by ingestion, Irritant

Target Organs: Kidneys, Liver

Signal Words: Warning

Pictograms:



GHS Classification:

Acute toxicity, Oral	Category 4
Eye irritation	Category 2B

GHS Label Elements, including precautionary statements:

Hazard Statements:

H302	Harmful if swallowed.
H320	Causes eye irritation.

Precautionary Statements:

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER and get IMMEDIATE MEDICAL ATTENTION.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of all contents/containers in accordance with local regulations.

Potential Health Effects

Eyes	May cause eye irritation.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	2
Flammability	0
Reactivity	0
Specific hazard	N/A

HMIS Ratings

Health	2
Fire	0
Reactivity	0
Personal	C

0 =minimal 1= slight 2=moderate 3= serious 4= severe

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Volume %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Ethylene Glycol	≥50	107-21-1	203-473-3	C ₂ H ₆ O ₂	62.07 g/mol
Antifreeze Inhibitors*	<2	Proprietary	Proprietary	Proprietary	Proprietary
Dye	<1	N/A	N/A	N/A	N/A
Deionized Water	Balance	7732-18-5	231-791-2	H ₂ O	18.00 g/mol

*Chemicals listed are only those ingredients which are not trade secrets, are classified as health hazards and are present above their concentration limits.

4. FIRST-AID MEASURES

Eyes	Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use water, fog, foam, carbon dioxide or dry chemical on fires involving this product. Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Full protective equipment including self-contained breathing apparatus should be used during a fire. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.
Specific hazards arising from	Closed containers may rupture or explode due to steam pressure build-

the chemical	up when exposed to extreme heat. Water may be used to cool closed containers. May emit toxic fumes (oxides of carbon) under fire conditions. (See also Stability and Reactivity section).
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Store only in containers that are resistant to alkaline solutions. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Ethylene Glycol	100 mg/m ³	STEL	ACGIH
	50 ppm 125 mg/m ³	STEL	OSHA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	GOLD
Odor	STRONG
pH	9.0-10.5
Specific gravity	1.045 min.
Freezing point	-36°C (-34°F)
Boiling point	109°C (229°F)
Flash point	Not Flammable
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	10 mmHg at 20°C (68°F)
Vapor density	2.1 (air = 1)
Solubility	Completely soluble in water.
Percent volatile by Volume	NIL

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Storage below 15.5°C (60°F) or above 65.5°C (150°F)
Incompatible Materials	Strong acids, oxidizers.
Hazardous Decomposition Products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ethylene Glycol

Skin	LD50 Dermal - rabbit - 10,626 mg/kg
Eyes	Eyes - rabbit - Mild eye irritation - 24 h
Respiratory	Not Available
Ingestion	LD50 Oral - rat - 4,700 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Brief contact is not irritating. Prolonged contact, as well as clothing wetted with material may cause defatting of skin or irritation, seen as local redness with possibility of mild discomfort.
Eyes	Eye burns, watering eyes, redness.

Respiratory	Irritation of nose and/or throat, drowsiness, headache, nausea.
Ingestion	Toxic when swallowed. Lethal dose for adults is 1-2mL per kilogram. Symptoms of exposure may include headache, weakness, confusion, nausea, dizziness, staggering gait, slurred speech, loss of concentration, faintness, vomiting, increased heart rate, decreased blood pressure, difficulty breathing, and pulmonary edema. Severe poisoning may cause death.

Chronic Toxicity	Repeated overexposure may aggravate existing kidney disease. Repeated ingestion may cause kidney damage.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ethylene Glycol

Aquatic Vertebrate	LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h NOEC - Pimephales promelas (fathead minnow) - 32,000 mg/l - 7 d NOEC - Pimephales promelas (fathead minnow) - 39,140 mg/l - 96 h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h NOEC - Daphnia - 24,000 mg/l - 48 h LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h
Terrestrial	Not Available

Persistence and Degradability	Biodegradable.
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residues.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods

Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard
SARA 312	Acute Health Hazard
SARA 313	Not Listed
WHMIS Canada	Class D-2A: Poisonous and infectious material- Other effects- Very toxic Class D-1B: Poisonous and infectious material- Immediate and serious effects- Toxic

16. OTHER INFORMATION

Revision	Date
004	04/05/2017

Disclaimer: We believe that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because we have no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.

SDS Version Created by EGX CHEMICAL INC 4/5/2017
Supersedes MSDS: 01/20/2015

Safety Data Sheet

Product Name: **EGX ENDURANCE HD 50/50 RED**

SDS No.: 0000103
Issue Date: 04/5/2017
Version No.: 004

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EGX ENDURANCE HD 50/50 RED

Company Name & Address: EGX CHEMICAL 1901 NW 67TH PL BUILDING X
GAINESVILLE FL 32653

For More Information Call: 904-447-1934 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: 800-256-1934 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Harmful by ingestion, Irritant

Target Organs: Kidneys, Liver

Signal Words: Warning

Pictograms:



GHS Classification:

Acute toxicity, Oral	Category 4
Eye irritation	Category 2B

GHS Label Elements, including precautionary statements:

Hazard Statements:

H302	Harmful if swallowed.
H320	Causes eye irritation.

Precautionary Statements:

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER and get IMMEDIATE MEDICAL ATTENTION.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice/attention.

P501	Dispose of all contents/containers in accordance with local regulations.
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Potential Health Effects

Eyes	May cause eye irritation.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	2
Flammability	0
Reactivity	0
Specific hazard	N/A

HMIS Ratings

Health	2
Fire	0
Reactivity	0
Personal	C

0 =minimal 1= slight 2=moderate 3= serious 4= severe

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Volume %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Ethylene Glycol	≥50	107-21-1	203-473-3	C ₂ H ₆ O ₂	62.07 g/mol
Antifreeze Inhibitors*	<3	Proprietary	Proprietary	Proprietary	Proprietary
Dye	<1	N/A	N/A	N/A	N/A
Deionized Water	Balance	7732-18-5	231-791-2	H ₂ O	18.00 g/mol

*Chemicals listed are only those ingredients which are not trade secrets, are classified as health hazards and are present above their concentration limits.

4. FIRST-AID MEASURES

Eyes	Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use water, fog, foam, carbon dioxide or dry chemical on fires involving this product. Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Full protective equipment including self-contained breathing apparatus should be used during a fire. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.

Specific hazards arising from the chemical	Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers. May emit toxic fumes (oxides of carbon) under fire conditions. (See also Stability and Reactivity section).
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Store only in containers that are resistant to alkaline solutions. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Ethylene Glycol	100 mg/m ³	STEL	ACGIH
	50 ppm 125 mg/m ³	STEL	OSHA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CELL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	RED
Odor	STRONG
pH	8.0-9.5
Specific gravity	1.045 min.
Freezing point	-36°C (-34°F)
Boiling point	109°C (229°F)
Flash point	Not Flammable
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	10 mmHg at 20°C (68°F)
Vapor density	2.1 (air = 1)
Solubility	Completely soluble in water.
Percent volatile by Volume	NIL

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Storage below 15.5°C (60°F) or above 65.5°C (150°F)
Incompatible Materials	Strong acids, oxidizers.
Hazardous Decomposition Products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ethylene Glycol

Skin	LD50 Dermal - rabbit - 10,626 mg/kg
Eyes	Eyes - rabbit - Mild eye irritation - 24 h
Respiratory	Not Available
Ingestion	LD50 Oral - rat - 4,700 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Brief contact is not irritating. Prolonged contact, as well as clothing wetted with material may cause defatting of skin or irritation, seen as local redness with possibility of mild discomfort.
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Eyes	Eye burns, watering eyes, redness.
Respiratory	Irritation of nose and/or throat, drowsiness, headache, nausea.
Ingestion	Toxic when swallowed. Lethal dose for adults is 1-2mL per kilogram. Symptoms of exposure may include headache, weakness, confusion, nausea, dizziness, staggering gait, slurred speech, loss of concentration, faintness, vomiting, increased heart rate, decreased blood pressure, difficulty breathing, and pulmonary edema. Severe poisoning may cause death.

Chronic Toxicity	Repeated overexposure may aggravate existing kidney disease. Repeated ingestion may cause kidney damage.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ethylene Glycol

Aquatic Vertebrate	LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h NOEC - Pimephales promelas (fathead minnow) - 32,000 mg/l - 7 d NOEC - Pimephales promelas (fathead minnow) - 39,140 mg/l - 96 h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h NOEC - Daphnia - 24,000 mg/l - 48 h LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h
Terrestrial	Not Available

Persistence and Degradability	Biodegradable.
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residues.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods

IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard
SARA 312	Acute Health Hazard
SARA 313	Not Listed
WHMIS Canada	Class D-2A: Poisonous and infectious material- Other effects- Very toxic Class D-1B: Poisonous and infectious material- Immediate and serious effects- Toxic

16. OTHER INFORMATION

Revision	Date
004	04/05/2017

Disclaimer: We believe that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because we have no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.

SAFETY DATA SHEET PURPLE DISTILLATE



CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supplier's Information:

EGX CHEMICAL
1901 NW 67TH Place STE F
Gainesville, FL 32653

Product Name: EGX Purple Distillate

Use Dilution Information:

3-4 oz. per Gallon; Ratio: 30-40 Parts Water to
1 Part Product

HAZARD IDENTIFICATION

Product as a Concentrate:

GHS Overview:

Eye Corrosive, Corrosive to Gastrointestinal
Tract, Skin Corrosive.

GHS Label Elements:

Signal Word: Danger

Symbol:



Hazard Statements:

Causes Skin Irritation/Damage
Causes Eye Irritation/Damage

Precautionary Statements

Prevention: Wear protective gloves. Wear eye
or full face protection. Wear protective clothing.
Wash hands thoroughly after handling.

Response:

Skin Contact: If skin comes in contact with
prod-uct: Flush exposed area with cool water
for 15 minutes. Consult a physician if irritation
develops or persists. **Eye Contact:** If this
product comes in contact with eyes, flush eyes
with luke warm water for 30 minutes and
consult a physician if ir-ritation develops or
persists. **If Swallowed:** Have patient drink large
amounts of milk or plain water. **DO NOT
INDUCE VOMITING.** Consult a physi-cian
immediately. **If Inhaled:** Remove to clean
atmosphere and consult physician immediately.

Storage: No specific restriction identified.

Disposal: See Section 13 for waste disposal
info.

Other Hazards: None known.

Product at Use Dilution:

GHS Overview:

Eye Severe Irritant, Severe Irritant to Gastroin-
testinal Tract, Skin Irritant

GHS Label Elements:

Signal Word: Danger

Symbol:



Hazard Statements:

May Cause Skin Irritation/Damage
May Cause Eye Irritation/Damage

Precautionary Statements

Prevention: Wear protective gloves. Wear eye
or full face protection. Wear protective
clothing. Wash hands thoroughly after
handling. **Response:**

Skin Contact: If skin comes in contact with
prod-uct: Flush exposed area with cool water
for 15 minutes. Consult a physician if irritation
develops or persists. **Eye Contact:** If this
product comes in contact with eyes, flush eyes
with luke warm water for 30 minutes and
consult a physician if ir-ritation develops or
persists. **If Swallowed:** Have patient drink
large amounts of milk or plain water. **DO NOT
INDUCE VOMITING.** Consult a physi-cian
immediately. **If Inhaled:** Remove to clean
atmosphere and consult physician
immediately. **Storage:** No specific restriction
identified. **Disposal:** See Section 13 for waste
disposal info.

Other Hazards: None known.



COMPOSITION/ INFORMATION OF INGREDIENTS

Product as a Concentrate

Hazardous Ingredients	Concentration Range	CAS Number
Potassium Hydroxide	4 - 6 %	1310 - 58 - 3
Ethylene Glycol Monobutyl Ether	6 - 12 %	111 - 76 - 2
Monoethanolamine	3 - 5 %	141 - 43 - 5
Sodium Metasilicate	1 - 3 %	6834 - 92 - 0

Product at Use Dilution

Hazardous Ingredients	Concentration Range	CAS Number
Potassium Hydroxide	< 1 %	1310 - 58 - 3
Ethylene Glycol Monobutyl Ether	< 1 %	111 - 76 - 2
Monoethanolamine	< 1 %	141 - 43 - 5
Sodium Metasilicate	< 1 %	6834 - 92 - 0

FIRST AID PROCEDURES

Product as a Concentrate:

Skin Contact: If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.

Eye Contact: If this product comes in contact with eyes, flush eyes with lukewarm water for 30 minutes and consult a physician if irritation persists.

Ingestion: DO NOT INDUCE VOMITING. Have patient drink large amounts of milk or plain water. Consult a physician immediately.

Inhalation: Remove to clean atmosphere and consult physician immediately.

Product at Use Dilutions:

Skin Contact: If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.

Eye Contact: If this product comes in contact with eyes, flush eyes with lukewarm water for 30 minutes and consult a physician if irritation persists.

Ingestion: DO NOT INDUCE VOMITING. Have patient drink large amounts of milk or plain water. Consult a physician immediately.

Inhalation: Remove to clean atmosphere and consult physician immediately.

Protection of First Responders:

No action shall be taken involving personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Note to Physician:

Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled.

FIRE FIGHTING INFORMATION

Product as a Concentrate:

Suitable Fire Extinguishing Media: Use water spray fog, or foam.

Specific Fire Hazards: In a fire or if heated, pressure increase may occur and the container may burst.

Hazardous Thermal Decomposition Products: None known.

Specific Fire - Fighting Methods: Promptly isolate the scene by removing all persons from the area if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full-face piece operated in positive pressure mode.



ACCIDENTAL SPILL PROCEDURES

Product as a Concentrate:

Personal Precautions: Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled material.

Environmental Precautions: Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

Methods for Cleaning Up: Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

HANDLING AND STORAGE

Product as a Concentrate

Handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

Storage: Keep out of the reach of children. Keep container tightly closed. Store between the following temperatures: -25°C and 40°C.

EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters:

Ingredients Name

Potassium Hydroxide

Ethylene Glycol Monobutyl Ether

Sodium Metasilicate

Monoethanolamine

Appropriate Engineering Controls:

Use only in adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product at Use Dilution:

Personal Precautions: Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled material.

Environmental Precautions: Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

Methods for Cleaning Up: Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

Product at Use Dilution

Handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

Storage: Keep out of the reach of children. Keep container tightly closed.

Exposure Limits

ACGIH TLV: 2 mg/m³

NIOSH TWA: 10 mg/m³

ACGIH TLV: 20 mg/m³

NIOSH TWA: 50 mg/m³

ACGIH TLV: ND mg/m³

NIOSH TWA: 15 mg/m³

ACGIH TLV: 3 mg/m³

NIOSH TWA: 6 mg/m³

EXPOSURE CONTROLS/ PERSONAL PROTECTION

Eye Protection:	Use chemical splash goggles. For continued or severe exposure wear a face shield over goggles.
Hand Protection: Skin Protection:	Use chemical resistant, impervious gloves. Use synthetic apron, other protective equipment as necessary to prevent skin contact.
Respiratory Protection:	A respirator is not needed under normal and intended conditions of product use. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using lavatory and at the end of working period.
Hygiene Measures:	Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

PHYSICAL AND CHEMICAL PROPERTIES

Product as a Concentrate:

Physical State:	Liquid
Color:	Purple
Odor:	Slight
pH:	13.0 - 14.0
Flash Point:	None
Explosion Limits:	None
Flammability:	Will not burn or support combustion
Melting Point:	Not Applicable
Boiling Point:	>100°C (212°F)
Evaporation Rate:	Not Determined
Vapor Pressure:	Not Determined
Vapor Density:	Not Determined
Specific Gravity:	1.09 +/-
Solubility:	Easily soluble in either cold or hot water
Viscosity:	Same as water

STABILITY AND REACTIVITY

Product as a Concentrate

Stability: This product is stable.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, no hazardous reactions will occur.

Conditions to Avoid: None

Materials to Avoid: Extremely reactive or incompatible materials such as acids.

Reactive or incompatible with the following materials: Oxidizers.

Slightly reactive or incompatible with the following materials: Metals.

Hazardous Decomposition Products: Under normal conditions of storage and use hazardous decomposition shall not occur.



TOXICOLOGICAL INFORMATION



Routes of Exposure: Skin Contact, Eye Contact, Inhalation, Ingestion.

Product as a Concentrate

Symptoms

Skin Contact: Adverse symptoms may include the following: Pain or irritation, redness, rash.

Eye Contact: Adverse symptoms may include the following: Pain or irritation, redness, watering.

Inhalation: Adverse symptoms may include the following: Coughing, respiratory tract irritation.

Ingestion: Adverse symptoms may include the following: Stomach pains, diarrhea.

Acute Toxicity

Skin Contact: Causes damage / irritation.

Eye Contact: Causes damage / irritation.

Inhalation: Can cause slight respiratory irritation.

Ingestion: Causes burns to the mouth, throat and stomach.

Product at Use Dilutions

Symptoms

Skin Contact: Adverse symptoms may include the following: Pain or irritation, redness, rash.

Eye Contact: Adverse symptoms may include the following: Pain or irritation, redness, watering.

Inhalation: Adverse symptoms may include the following: Coughing, respiratory tract irritation.

Ingestion: Adverse symptoms may include the following: Stomach pains, diarrhea.

Toxicity Data

Product / Ingredient Name

Not Applicable

Chronic Toxicity

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

ECOLOGICAL INFORMATION

Product as a Concentrate

Ecotoxicity: This material is harmful to aquatic life.

Aquatic and Terrestrial Toxicity

Product / Ingredient Name	Results	Species	Exposure
Sodium Hydroxide	Acute LC50 - 1000 mg/l	Rainbow Trout	96 Hours
	Acute LC50 - 4090 mg/kg	Rat	24 Hours
Ethylene Glycol Monobutyl Ether	Acute LC50 - 1700 mg/l	Rainbow Trout	96 Hours
	Acute LC50 - 2700 mg/kg	Rat	24 hours
Sodium Metasilcate	Acute LC50 - 42 mg/l	Minnow	96 Hours
	Acute LC50 - 600 mg/kg	Rat	24 Hours
Monoethanolamine	Acute LC50 - 125 mg/l	Flathead Minnow	96 Hours
	Acute LC50 - 2460 mg/kg	Rat	24 Hours

DISPOSAL METHODS AND CONSIDERATIONS

Product as a Concentrate

Disposal Methods: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with all local, State, and Federal regulations.

RCRA Classification: None

TRANSPORTATION INFORMATION

Note: Certain shipping modes or packaging sizes may have exceptions from the transportation regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or packaging sizes.

DOT (U.S. Department of Transportation)

DOT Classification: Non Hazardous

DOT Proper Shipping Name: Non Regulated Soaps & Detergents

Shipping Class:

Packaging Group:

IMO / IMDG

IMO / IMDG Classification: Non Hazardous

IMO / IMDG Proper Shipping Name: Non Regulated Soaps & Detergents

Shipping Class:

Packaging Group:

REGULATORY INFORMATION

Product as a Concentrate

U.S. Federal Regulations

TSCA 8(b) Inventory: All components are listed or exempt.

SARA 302/304/311/312 Extremely Hazardous Substances: No Listed Substances.

SARA 313	Product Names	CAS Number	Concentration:
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No Listed Substances.

California Prop. 65

No Listed Substances.

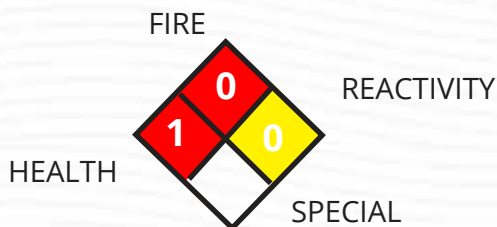


OTHER INFORMATION

Hazardous Material Information System (U.S.A.)

NFPA RATING

0 = Non-Hazardous
1 = Slight Hazard
2 = Hazardous
3 = Extreme
Hazard 4 = Deadly



National Fire Protection Association (U.S.A.)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL	B

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Prepared By: SHC

Note to Reader:

This above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

