

SAFETY DATA SHEETS

This SDS packet was issued with item:

078059296

N/A



MATERIAL SAFETY DATA SHEET
EUTHASOL[®] Euthanasia Solution
Product Code: 710101

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name EUTHASOL[®] Euthanasia Solution
Product Description For euthanasia of dogs
Manufacturer/Supplier Virbac AH, Inc.
Address P.O. Box 162059
Fort Worth, Texas 76161
Phone Number (800) 338-3659
Chemtrec Number (24 hour) (800) 424-9300
Other Emergency Numbers: Poison Control Center: 1-800-222-1222
MSDS Revision Date: March 31, 2012
Supersedes MSDS Dated: March 19, 2009

Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER!

Harmful if ingested.
Poison: Keep out of reach of children.
Avoid contact with eyes, skin or clothing.

Routes of Entry

Eye contact - Skin contact - Ingestion - Inhalation

Carcinogenic Status

Contains an ingredient considered carcinogenic by NTP.

Target Organs

Eye - Skin - Respiratory Tract - Gastrointestinal Tract - Cardiovascular - Central Nervous System –
Liver - Reproductive - Heart

Health Effects - Eyes

Contact may cause severe eye irritation.

Health Effects - Skin

Contact with skin may cause irritation.

Health Effects - Ingestion

Ingestion of this material causes adverse gastrointestinal, cardiovascular, liver, central nervous system and reproductive effects. Symptoms include drowsiness, headache, mental depression, dizziness, confusion, lack of muscular control, impaired judgement and sedation. In cases of severe overdoses, this material can cause respiratory and cardiovascular suppression, coma and death due to respiratory and circulatory failure. Ingestion of 2 to 3 grams of pentobarbital sodium can be fatal.

Health Effects - Inhalation

Inhalation may cause irritation of respiratory tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Sodium Pentobarbital	57-33-0	31% (390mg/ml)
Phenytoin Sodium	630-93-3	4.72% (50mg/ml)



3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Ethyl Alcohol	64-17-5	1 - 10%
Benzyl Alcohol	100-51-6	1 – 10%
Rhodamine B	81-88-9	0.1- <1.0%

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion

Obtain medical attention immediately. Do not induce vomiting, unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians

The rate of onset of effects from this material is relatively short compared to other barbiturates. Treatment is mainly supportive.

Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

None known.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing. Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation. Dispose in accordance with federal, state and local regulations for DEA Schedule II controlled substances.

7. HANDLING AND STORAGE

Store between 59°F and 86°F (15°C and 30°C) in original containers. Keep out of sunlight. Keep container tightly closed in a cool dry place. Avoid contact with skin, eyes and clothing. Wash hands after dispensing and before eating, drinking or smoking. Keep away from children.

Special precautions to be taken when administering product: Wear gloves, gowns and protective eyewear. Do not recap used needles by hand. Place used disposable syringes and needles in puncture resistant containers for disposal.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Pentobarbital Sodium

ACGIH: TLV 10 mg/m³ TWA 8h

OSHA: PEL 5 mg/m³, respirable fraction

OSHA: PEL 15 mg/m³, total dust

Ethyl Alcohol

ACGIH: 1000 ppm 15-min STEL

OSHA: PEL 1000ppm (1900 mg/m³) 8h TWA

Phenytoin Sodium

None established.

Benzyl Alcohol

None

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Not required when used according to label directions.

Hand Protection

Rubber gloves

Eye Protection

Glasses or goggles

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Clear pink
Odor	No data available
pH	12 - 13
Specific Gravity	1.105
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	Not applicable
Density	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	Not applicable

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat - contact with incompatible materials



10. STABILITY AND REACTIVITY

Materials to Avoid

Acids - oxidizing agents

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon – organic compounds – toxic fumes of nitrogen oxides and sodium oxide - benzaldehyde

11. TOXICOLOGICAL INFORMATION

See product insert and/or packaging for additional information.

Acute Toxicity

Pentobarbital sodium: Oral LD50 (rat) 118 mg/kg

Ethyl Alcohol: Oral LD50 (rat) 7060 mg/kg

Phenytoin Sodium: Oral LD50 (rat) 1530 mg/kg

Benzyl Alcohol: Oral LD50 (rat) 1230 mg/kg

Dermal LD50 (rabbit) 2000 mg/kg

Inhalation LC50 (rat) 74.187 mg/l, 4h

Specific Target Organ Systemic Toxicity (single and repeat)

Pentobarbital sodium: Causes central nervous system effects similar to alcohol inebriation and adverse liver effects. Ingestion can cause respiratory and cardiovascular depression, coma and death. The potentially fatal dose is 2-3 grams.

Ethyl Alcohol: Chronic exposure can result in adverse liver, heart and central nervous system effects.

Benzyl alcohol: Causes adverse central nervous system effects.

Serious Eye damage/Eye Irritation

Ethyl Alcohol: Causes severe eye irritation.

Benzyl Alcohol: Causes moderate to severe eye irritation.

Skin Corrosion/Irritation

Ethyl alcohol: Mildly irritating.

Benzyl Alcohol: Causes mild to moderate skin irritation.

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Phenytoin Sodium: Reasonably anticipated to be human carcinogen (NTP).

Germ Cell Mutagenicity

Pentobarbitone (free acid) was positive in multiple assays.

Benzyl Alcohol: Ames testing showed no mutagenic activity and mixed results both positive and negative were observed from other in-vitro genotoxicity assays. Benzyl alcohol showed no genotoxicity during in-vivo testing. The weight of the evidence indicates this material is not mutagenic or clastogenic.

Toxicity to Reproduction

Pentobarbital sodium: Based on animal studies on pentobarbitone (free acid) and studies for other barbiturates, pentobarbital sodium may affect the developing fetus. The placental transfer of this material in humans has been documented. Neonates from mothers exposed therapeutically to barbiturates have shown blood coagulation disorders and drug withdrawal symptoms. Doses of 600 – 750 mg administered intravenously to mothers before delivery caused moderate to severe neonatal depression in 40% of the infants with a delay in the establishment of normal respiration. Doses up to 300 mg showed no appreciable effects.

Ethyl Alcohol: Ingestion of ethyl alcohol during pregnancy has caused adverse reproductive effects (fetal alcohol syndrome) but only at doses that are maternally toxic.



12. ECOLOGICAL INFORMATION

This product is toxic to wildlife. Birds and mammals feeding on treated animals may be killed.

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Pentobarbital sodium: LC50 Fathead minnow 49mg/l (4 day)

Benzyl alcohol : Bluegill sunfish LC50:10 mg/l 96hr

Daphnia Magna EC50: 15.2 mg/l 48 hr

Chlorella pyrenoidosa (Algae) EC50:95 mg/l 3hr

13. DISPOSAL CONSIDERATIONS

Euthanized animals: must be properly disposed of by deep burial, incineration, or other method in compliance with state and local laws, to prevent consumption of carcass material by scavenging wildlife.

Waste Disposal: Dispose of in a manner approved for US DEA Schedule II controlled substances.

Empty Container Disposal: Empty containers must be triple rinsed prior to disposal and may be disposed of according to local regulations.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

DSL (Canadian) Listing

This product contains ingredients that have been verified for listing on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

WHMIS Classification

D1B.D2A

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law: Ethyl alcohol – Benzyl alcohol

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Ethyl alcohol - Rhodamine B

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Pentobarbital Sodium - Ethyl alcohol - Benzyl alcohol



15. REGULATORY INFORMATION

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Pentobarbital Sodium – Phenytoin Sodium – Rhodamine B

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Pentobarbital Sodium

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 1

NFPA Code for Health - 2

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 1

HMIS Code for Health - 3*

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

(* - Chronic health hazard)

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

For further information call: (800) 338-3650

Prepared By: EnviroNet LLC

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The information and recommendations presented in this MSDS are based on sources believed to be accurate. Virbac AH, Inc. assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the **material** for their particular purposes. In particular, we make **NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED**, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use **or disposal** of the material is in accordance with applicable Federal, State, and local laws and regulations.



SAFETY DATA SHEET
EUTHASOL®
Euthanasia Solution

1. IDENTIFICATION

Product Name	EUTHASOL® Euthanasia Solution
Recommended use of the chemical and restrictions on use	
Identified uses	For canine euthanasia
Restrictions on Use	Federal law restricts this drug to use by or on the order of a licensed veterinarian.
Company Identification	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
Customer Information Number	
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300
Other Emergency Number:	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-345-4735 (human and pet)
Issue Date	May 23, 2016
Supersedes Date	June 30, 2014

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARDS IDENTIFICATION

Hazard Classification

Acute Toxicity (Oral) - Category 3
Serious eye damage/eye irritation - Category 2A
Skin corrosion/irritation - Category 2
Toxic to Reproduction - Category 2
Carcinogenicity - Category 2

Label Elements

Hazard Symbols



Signal Word: Danger

Hazard Statements

Toxic if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.



2. HAZARDS IDENTIFICATION

Precautionary Statements

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear eye protection, face protection, protective clothing and protective gloves.

Wash hands thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Response

If swallowed: Immediately call a poison center or doctor. Rinse mouth.

If on skin: Wash with plenty of soap and water. If skin irritation occurs get medical advice/attention. Take of contaminated clothing and wash it before reuse.

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.

If exposed or concerned: Get medical advice/attention.

Storage

Store locked up.

Disposal

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

Other Hazards

None

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	< 10%
Acute dermal toxicity	40 - 50%
Acute inhalation toxicity	50 - 60%
Acute aquatic toxicity	40 - 50%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Pentobarbital Sodium	57-33-0	35 - 45% (390mg/ml)
Phenytoin Sodium	630-93-3	1 - 10% (50mg/ml)
Ethyl Alcohol	64-17-5	5 - 15%
Benzyl Alcohol	100-51-6	1 - 10%
Sodium Hydroxide	1310-73-2	as needed to adjust pH

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.



4. FIRST AID MEASURES

Skin

Wash skin with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians

The rate of onset of effects from this material is relatively short compared to other barbiturates. Treatment is mainly supportive.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

None known

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.

Environmental Precautions

Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

Methods and materials for containment and cleaning up

Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses. Dispose in accordance with federal, state and local regulations for DEA Schedule II controlled substances.



7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wash and remove contaminated clothing before reuse. Wash hands thoroughly after handling and before eating, drinking or smoking.

Special precautions to be taken when administering product: Wear gloves, gowns and protective eyewear. Do not recap used needles by hand. Place used disposable syringes and needles in puncture resistant containers for disposal.

Conditions for safe storage

Store between 59°F and 86°F (15°C and 30°C) in original containers. Keep out of sunlight. Keep container tightly closed in a cool dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Pentobarbital Sodium

ACGIH: TLV 10 mg/m³ TWA 8h

OSHA: PEL 5 mg/m³, respirable fraction

OSHA: PEL 15 mg/m³, total dust

Ethyl Alcohol

ACGIH: 1000 ppm 15-min STEL

OSHA: PEL 1000ppm (1900 mg/m³) 8h TWA

Phenytoin Sodium

None established.

Benzyl Alcohol

None

Sodium Olefin Sulfonate

Appropriate engineering controls

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Individual protection measures

Respiratory Protection

Not required when used according to label directions.

Skin Protection

Rubber gloves

Eye/Face Protection

Safety glasses or goggles.

Body Protection

Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid

Color Clear pink

Odor

No data available



9. PHYSICAL AND CHEMICAL PROPERTIES

Odor Threshold	No data available
pH	12 - 13
Specific Gravity	1.105
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	No data available
VOC	No data available
Partition coefficient (n-octanol/water)	Not applicable
Viscosity	Not applicable
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Flammability (solid, gas)	No data available

10. STABILITY AND REACTIVITY

Reactivity

Data is not available

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Heat - high temperatures

Incompatible Materials

Acids - oxidizing agents

Hazardous Decomposition Products

Oxides of carbon – organic compounds – toxic fumes of nitrogen oxides and sodium oxide - benzaldehyde

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Pentobarbital sodium

Oral LD50 (rat) 118 mg/kg

Ethyl Alcohol

Oral LD50 (rat) 7060 mg/kg



11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Phenytoin Sodium

Oral LD50 (rat) 1530 mg/kg

Benzyl Alcohol

Oral LD50 (rat) 1230 mg/kg

Dermal LD50 (rabbit) 2000 mg/kg

Inhalation LC50 (rat) 74.187 mg/l, 4h

Specific Target Organ Toxicity (STOT) – single exposure

No relevant studies identified.

Specific Target Organ Toxicity (STOT) – repeat exposure

No relevant studies identified.

Serious Eye damage/Irritation

This product causes serious eye irritation.

Skin Corrosion/Irritation

This product causes skin irritation.

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Phenytoin Sodium: NTP: Reasonably anticipated to be human carcinogen.

Phenytoin: IARC 2B, Possibly carcinogenic to humans.

Germ Cell Mutagenicity

No relevant studies identified.

Reproductive Toxicity

Pentobarbital: Suspected of damaging the unborn child through oral exposure. FDA Pregnancy Category D: There is positive evidence of human fetal risk based on adverse reaction data from investigational or marketing experience or studies in humans.

Phenytoin: FDA Pregnancy Category D: There is positive evidence of human fetal risk based on adverse reaction data from investigational or marketing experience or studies in humans. Administration of this drug to pregnant animals resulted in teratogenicity (increased incidences of fetal malformations) and other developmental toxicity (including embryofetal death, growth impairment, and behavioral abnormalities) in multiple animal species at clinically relevant doses. An increased risk of congenital abnormalities ("fetal hydantoin syndrome") has been associated with the use of phenytoin (the active metabolite of this drug) in epileptic women during pregnancy.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is toxic to wildlife. Birds and mammals feeding on treated animals may be killed.

Pentobarbital sodium

LC50 Fathead minnow 49mg/l (4 day)



12. ECOLOGICAL INFORMATION

Ecotoxicity

Benzyl alcohol

LC50 Bluegill sunfish 10 mg/l 96 hr

EC50 Daphnia Magna 15.2 mg/l 48 hr

EC50 Chlorella pyrenoidosa (Algae) 95 mg/l 3 hr

Mobility in soil

No relevant studies identified.

Persistence/Degradability

Sodium Olefin Sulfonate: Readily biodegradable

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Euthanized animals: must be properly disposed of by deep burial, incineration, or other method in compliance with state and local laws, to prevent consumption of carcass material by scavenging wildlife.

Waste Disposal: Dispose of in a manner approved for US DEA Schedule II controlled substances.

Empty Container Disposal: Empty containers must be triple rinsed prior to disposal and may be disposed of according to local regulations.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

United States TSCA Inventory

This product is a drug and is not subject to the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canada DSL Inventory

This product is a drug and therefore is not regulated under the Canadian Environmental Protection Act.

California Proposition 65

This product contains chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard



15. REGULATORY INFORMATION

SARA Title III Sect. 313

The following chemicals are listed in Section 313 at or above de minimis concentrations: Pentobarbital Sodium

16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
BOD: Biological Oxygen Demand
CAS#: Chemical Abstracts Service Number
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: May 23, 2016

Replaces: June 30, 2014

Changes made: Updated to GHS classification.

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

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