

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP ZEP-A-LUME E

Material number : 000000000000106324

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE
Emerson, GA 30137

Telephone : Compliance Services - 877-428-9937

Emergency telephone numbers

For SDS Information : Compliance Services - 877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

**For a Transportation
Emergency** : CHEMTREC: 800-424-9300 - All Calls Recorded.
In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	clear, colourless
Odour	strong, characteristic

GHS Classification

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 3

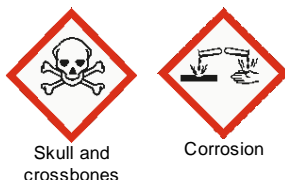
Acute toxicity (Dermal) : Category 2

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H301 + H331 Toxic if swallowed or if inhaled.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P201 + P202 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

SPECIAL HANDLING INSTRUCTIONS - Due to the unique hazards associated with hydrogen fluoride (HF), facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P321 Specific treatment (see supplemental instructions on the administration of antidotes on this label).

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

SUPPLEMENTAL MEDICAL TREATMENT - Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel to the skin.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Chemical name	CAS-No.	Concentration [%]
sulphuric acid	7664-93-9	$\geq 10 - < 20$
hydrogen fluoride	7664-39-3	$\geq 5 - < 10$
2-butoxyethanol	111-76-2	$\geq 3 - < 5$
4-Nonylphenol branched, ethoxylated	127087-87-0	$\geq 3 - < 5$
orthophosphoric acid	7664-38-2	$\geq 3 - < 5$

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get immediate medical attention.
- In case of eye contact : Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Continue rinsing eyes during transport to hospital.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
If symptoms persist, call a physician.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Effects are immediate and delayed.
Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration, contact time).
Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.
Fatal in contact with skin.
Causes severe skin burns and eye damage.
Review section 2 of SDS to see all potential hazards.
- Notes to physician : Treat symptomatically. Symptoms may be delayed.
Delayed treatment may result in hypoglycemia, begin treatment with topical application calcium gluconate, and monitor blood chemistry.
- Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled, or contact with large

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

portions of the body have occurred.

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Suitable extinguishing media | : Water spray
Dry chemical
Foam |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Fluorine compounds
Carbon monoxide
Carbon dioxide (CO ₂)
Smoke
Phosphorus compounds |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Further information | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Ensure adequate ventilation. |
| Environmental precautions | : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains, inform respective authorities. |
| Methods and materials for containment and cleaning up | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | |
|--------------------|---|
| Technical measures | : Due to the unique hazards associated with hydrogen fluoride (HF), it is highly recommended that emergency pre-planning and training of employees occur to mitigate and facilitate rapid |
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SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

response to an exposure. Facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.

Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
Prevent unauthorized access.

Materials to avoid : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sulphuric acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		PEL	0.1 mg/m3	CAL PEL
hydrogen fluoride	7664-39-3	STEL	3 mg/m3	CAL PEL
		TWA	0.5 ppm	ACGIH
		C	2 ppm	ACGIH
		TWA	3 ppm 2.5 mg/m3	NIOSH REL
		C	6 ppm 5 mg/m3	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	3 ppm	OSHA P0
		STEL	6 ppm	OSHA P0
		TWA	0.5 ppm	ACGIH
		C	2 ppm	ACGIH
		TWA	3 ppm	OSHA P0
		STEL	6 ppm	OSHA P0

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

		PEL	0.4 ppm 0.33 mg/m3	CAL PEL
		STEL	1 ppm 0.83 mg/m3	CAL PEL
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0
		PEL	20 ppm 97 mg/m3	CAL PEL
orthophosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
		PEL	1 mg/m3	CAL PEL
		STEL	3 mg/m3	CAL PEL

Biological occupational exposure limits

Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
HYDROFLUORIC ACID	7664-39-3	Fluoride	Urine	Prior to shift (16 hours after exposure ceases)	2 mg/l	ACGIH BEI
HYDROFLUORIC ACID		Fluoride	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGIH BEI
2-BUTOXYETHANOL	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200.mg/g Creatinine	ACGIH BEI

Engineering measures : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Material	: Protective gloves
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, colourless
Odour	: strong, characteristic
pH	: < 1
Melting point/freezing point	: No data available
Boiling point	: 104.44 °C
Flash point	: does not flash
Evaporation rate	: 1
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: not determined
Relative vapour density	: No data available
Density	: 1.12 g/cm ³
Solubility(ies)	
Water solubility	: soluble in hot water, soluble in cold water
Solubility in other solvents	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: not determined
Thermal decomposition	: No data available

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Viscosity

Viscosity, kinematic : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Hydrogen fluoride
Sulphur oxides
Carbon dioxide (CO₂)
Carbon monoxide
Phosphorus compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Effects are immediate and delayed.
Symptoms may include blistering, irritation, burns, and pain.
Effects are dependent on exposure (dose, concentration, contact time).

Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.

Fatal in contact with skin.

Causes severe skin burns and eye damage.

Review section 2 of SDS to see all potential hazards.

Treat symptomatically. Symptoms may be delayed.

Delayed treatment may result in hypoglycemia, begin treatment with topical application calcium gluconate, and monitor blood chemistry.

Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled, or contact with large portions of the body have occurred.

Carcinogenicity:

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

IARC	Group 1: Carcinogenic to humans	
ACGIH	sulphuric acid	7664-93-9
	Suspected human carcinogen	
	sulphuric acid	7664-93-9
	Confirmed animal carcinogen with unknown relevance to humans	
OSHA	2-butoxyethanol	111-76-2
	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
NTP	Known to be human carcinogen	
	sulphuric acid	7664-93-9

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 73.19 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 7.12 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 73.14 mg/kg
Method: Calculation method

Components:

2-butoxyethanol:

Acute oral toxicity : LD50 Oral Rat: 880 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 1,060 mg/kg

4-Nonylphenol branched, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 16,000 mg/kg

Acute dermal toxicity : LD50 Rabbit: 2,573 mg/kg

Skin corrosion/irritation

Product:

Remarks: Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause hypocalcemia (calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death. Get immediate medical attention.

Components:

hydrogen fluoride:

Remarks: Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause hypocalcemia (calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death. Get immediate medical attention.

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Product:

Partition coefficient: n-octanol/water : Remarks: No data available

Mobility in soil

No data available

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.
The GHS H401 statement "Toxic to aquatic life" noted above is an Acute Aquatic Toxicity Category 2 classification. Although the product has the potential to harm the environment, it is not classified as a marine pollutant or regulated under transportation regulations.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):
UN2922, Corrosive liquids, toxic, n.o.s., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: IMDG (Vessel):
UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: IATA (Cargo Air):
UN2922, Corrosive liquid, toxic, n.o.s., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: IATA (Passenger Air):
UN2922, Corrosive liquid, toxic, n.o.s., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Transportation Regulation: TDG (Canada):
UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
hydrogen fluoride	7664-39-3	100	1469

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
hydrogen fluoride	7664-39-3	100	1469

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

sulphuric acid	7664-93-9	10.8845 %
hydrogen fluoride	7664-39-3	6.8041 %

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

hydrogen fluoride	7664-39-3	6.8041 %
2-butoxyethanol	111-76-2	4.8839 %

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

The components of this product are reported in the following inventories:

DSL All components of this product are on the Canadian DSL
TSCA On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

Further information

NFPA:

HEALTH	3
FLAMMABILITY	0
INSTABILITY	0
SPECIAL HAZARD.	

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

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

OSHA - GHS Label Information:

SAFETY DATA SHEET

ZEP ZEP-A-LUME E

Version 2.2

Revision Date 10/01/2023

Print Date 10/17/2023

Hazard pictograms :



Skull and crossbones

Corrosion

Signal word :

Hazard statements :

Precautionary statements :

Danger:

Toxic if swallowed or if inhaled. Fatal in contact with skin. Causes severe skin burns and eye damage.

Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. **SPECIAL HANDLING INSTRUCTIONS** - Due to the unique hazards associated with hydrogen fluoride (HF), facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.

Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment (see supplemental instructions on the administration of antidotes on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. **SUPPLEMENTAL MEDICAL TREATMENT** - Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel to the skin. Take off contaminated clothing and wash before reuse.

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

Disposal: Dispose of contents/container in accordance with local regulation.

Version:	2.2
Revision Date:	10/01/2023
Print Date:	10/17/2023

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.