Material Safety Data Sheet

Airgas

Ethanol

Section 1. Chemical product and company identification

Product name : Ethanol

Supplier : AIRGAS INC., on behalf of its subsidiaries

259 North Radnor-Chester Road

Suite 100

Radnor, PA 19087-5283

1-610-687-5253

Synonym : ethyl alcohol; Denatured Alcohol; ALCOHOL; Ethyl alcohol (Ethanol)

Material uses : Other non-specified industry: MANUFACTURE OF ACETALDEHYDE AND OTHER

CHEMICALS; SOLVENTS; ANTIFREEZE AND BRAKE FLUIDS; FUEL.

MSDS # : 001114

Date of Preparation/

Revision

: 3/21/2014.

In case of emergency : 1-866-734-3438

Section 2. Hazards identification

Physical state : Liquid. [CLEAR, COLORLESS LIQUID WITH A WEAK, ETHEREAL, VINOUS ODOR]

Emergency overview : WARNING!

FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CAN CAUSE CANCER.

Flammable liquid. Severely irritating to eyes. Moderately irritating to the skin. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not get in eyes. Avoid contact with skin and clothing. May cause target organ damage, based on animal data. Can cause cancer. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash

thoroughly after handling.

Target organs : May cause damage to the following organs: the nervous system, liver, upper respiratory

tract, central nervous system (CNS).

Potential acute health effects

Eyes : Irritating to eyes.

Skin : Irritating to skin.

Inhalation : Irritating to respiratory system.

Ingestion : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : May cause target organ damage, based on animal data.

Carcinogenicity: Can cause cancer. Risk of cancer depends on duration and level of exposure.

Target organs: May cause damage to the following organs: the nervous system, liver, upper respiratory

tract, central nervous system (CNS).

Medical conditions aggravated by over-exposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

Section 3. Composition, Information on Ingredients

United States

Name CAS number % Volume **Exposure limits**

ethanol 64-17-5 100 ACGIH TLV (United States, 3/2012).

STEL: 1000 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

NIOSH REL (United States, 1/2013).

TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. OSHA PEL (United States, 6/2010).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

Section 4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Section 5. Fire-fighting measures

: Flammable. Flammability of the product : 455°C (851°F) Auto-ignition temperature

: Closed cup: 9.7°C (49.5°F). Flash point Flammable limits : Lower: 3.3% Upper: 19%

Products of combustion : Decomposition products may include the following materials:

> carbon dioxide carbon monoxide

Extinguishing media

Suitable : Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable : Do not use water jet.

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer

may create fire or explosion hazard.

Special protective equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

Section 6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Personal protection in case

of a large spill

Full chemical-resistant suit and self-contained breathing apparatus should be worn only by trained and authorized persons.

Product name

United States

ethanol

Exposure limits

ACGIH TLV (United States, 3/2012).

STEL: 1000 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

NIOSH REL (United States, 1/2013).

TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. OSHA PEL (United States, 6/2010).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

Section 9. Physical and chemical properties

Physical state : Liquid. [CLEAR, COLORLESS LIQUID WITH A WEAK, ETHEREAL, VINOUS ODOR]

Color : Colorless. Clear.

Odor : Characteristic.

Molecular weight : 46.08 g/mole

Molecular formula : C2-H6-O

Boiling/condensation point : 78.29°C (172.9°F)

Melting/freezing point : -114°C (-173.2°F)

Specific gravity : 0.8 (Water = 1)

Vapor pressure : 5.7 kPa (42.9 mm Hg) (at 20°C)

Vapor density : 1.6 (Air = 1)

Evaporation rate : 1.7 compared with butyl acetate

VOC : 100 % (w/w)

Viscosity : Dynamic: 0.544 to 0.59 cP

LogK_{ow}: The product is more soluble in water; log(octanol/water) =-0.35

Section 10. Stability and reactivity

Stability and reactivity

Incompatibility with various

substances

: The product is stable.

Highly reactive or incompatible with the following materials: oxidizing materials and

alkalis.

Hazardous decomposition

Hazardous polymerization

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Product/ingredient name ethanol

Result	Species	Dose	Exposure
LD50 Intra-arterial	Rat	11 mg/kg	-
LD50 Intraperitoneal	Rat	3600 µg/kg	-
LD50 Intravenous	Rat	1440 mg/kg	-
LD50 Oral	Rat	7 g/kg	-
LD50 Oral	Rat	15010 mg/kg	-
LD50 Oral	Rat	7060 mg/kg	-
LDLo Dermal	Rabbit	20000 mg/kg	-
LDLo Oral	Rat	7000 mg/kg	-
TDLo Intracerebral	Rat	363.6 μg/kg	-
TDLo Intracerebral	Rat	106 μg/kg	-
TDLo Intraperitoneal		2.45 g/kg	-
TDLo Intraperitoneal		2 g/kg	-
TDLo Intraperitoneal		1.5 g/kg	-
TDLo Intraperitoneal		1 g/kg	-
TDLo Intraperitoneal		0.5 g/kg	-
TDLo Intraperitoneal	Rat	0.25 g/kg	-
TDLo Intraperitoneal TDLo Intraperitoneal	Rat Rat - Male	3500 mg/kg 3000 mg/kg	-
TDLo Intraperitoneal	Rat	2800 mg/kg	_
TDLo Intraperitoneal	Rat	2700 mg/kg	_
TDLo Intraperitoneal	Rat	2500 mg/kg	_
TDLo Intraperitoneal	Rat	2000 mg/kg	_
TDLo Intraperitoneal	Rat	1500 mg/kg	-
TDLo Intraperitoneal	Rat - Female	1000 mg/kg	-
TDLo Intraperitoneal	Rat	500 mg/kg	-
TDLo Intraperitoneal	Rat - Male	2.4 mg/kg	-
TDLo Intraperitoneal	Rat - Male	1.25 mg/kg	-
TDLo Intravenous	Rat - Male	0.5 g/kg	-
TDLo Oral	Rat	6.4 g/kg	-
TDLo Oral	Rat	6 g/kg	-
TDLo Oral	Rat	5.25 g/kg	-
TDLo Oral TDLo Oral	Rat Rat	5 g/kg	-
TDLo Oral	Rat	3.9 g/kg 3 g/kg	-
TDLo Oral	Rat	2 g/kg	
TDLo Oral	Rat	1 g/kg	_
TDLo Oral	Rat	0.72 g/kg	_
TDLo Oral	Rat - Male	0.5 g/kg	_
TDLo Oral	Rat	0.4 g/kg	-
TDLo Oral	Rat - Female	10 mL/kg	-
TDLo Oral	Rat - Male	5 mL/kg	-
TDLo Oral	Rat	4.8 mL/kg	-
TDLo Oral	Rat	4.57 mL/kg	-
TDLo Oral	Rat	4.44 mL/kg	-
TDLo Oral	Rat	4 mL/kg	-
TDLo Oral	Rat	2.375 mL/kg	-

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TDLo Oral	Rat	12800 mg/kg	-
TDLo Oral	Rat	8000 mg/kg	-
TDLo Oral	Rat - Female	6000 mg/kg	-
TDLo Oral	Rat - Male	5250 mg/kg	-
TDLo Oral	Rat	5000 mg/kg	-
TDLo Oral	Rat - Female	4800 mg/kg	-
TDLo Oral	Rat	4300 mg/kg	-
TDLo Oral	Rat - Male	1600 mg/kg	-
TDLo Oral	Rat	1500 mg/kg	-
TDLo Oral	Rat	1000 mg/kg	-
TDLo Subcutaneous	Rat	7900 mg/kg	-
TDLo Unreported	Rat	3 g/kg	-
LC50 Inhalation	Rat	124700 mg/m³	4 hours
Vapor			
LC50 Inhalation	Rat	5900 mg/m³	6 hours
Vapor			
LC50 Inhalation	Rat	20000 ppm	10 hours
Gas.			

IDLH : 3300 ppm

Chronic effects on humans

: CARCINOGENIC EFFECTS: Classified 1 (Proven for humans.) by IARC. Classified A3

(Proven for animals.) by ACGIH.

May cause damage to the following organs: the nervous system, liver, upper respiratory

tract, central nervous system (CNS).

Other toxic effects on humans

: No specific information is available in our database regarding the other toxic effects of

this material to humans.

Specific effects

Carcinogenic effects : Can cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenic effects : No known significant effects or critical hazards. **Reproduction toxicity** : No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity				
ethanol	-	Acute EC50 1074 mg/l Fresh water	Crustaceans - Ostracod - Cypris subglobosa	48 hours
	-	Acute EC50 17.921 mg/l Marine water	Algae - Green algae - Ulva pertusa	96 hours
	-	Acute EC50 20000 ppm Fresh water	Algae - Green Flagellate - Tetraselmis tetrathele	96 hours
	-	Acute EC50 <10000 ppm Fresh water	Algae - Algae - Heterosigma akashiwo	96 hours
	-	Acute EC50 >100 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 2000 μg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 5680 to 7392 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 100 mg/l Fresh water	Fish - Fathead minnow -	96 hours

		Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2	
-	Acute LC50 12720 ppm Fresh water	to 0.5 g Fish - Fathead minnow - Pimephales promelas - 25 to 40 mm	96 hours
-	Acute LC50 13480000 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm	96 hours
-	Acute LC50 11000000 μg/l Marine water	Fish - Bleak - Alburnus alburnus - 8 to 10 cm	96 hours
-	Acute LC50 9268000 μg/ I Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
-	Acute LC50 9248000 μg/ I Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <12	48 hours
-	Acute LC50 6076000 to 7115000 μg/l Fresh water	hours Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
-	Acute LC50 5577000 to 6557000 µg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
-	Acute LC50 3715000 to 4432000 µg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
-	Acute LC50 42000 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days
-	Acute LC50 25500 μg/l Marine water	Crustaceans - San Francisco Brine Shrimp - Artemia franciscana - Larvae	48 hours
-	Chronic NOEC 4.995 mg/l Marine water	Algae - Green algae - Ulva pertusa	96 hours
-	Chronic NOEC 2000 ppm Fresh water	Algae - Diatom - Chaetoceros calcitrans	96 hours
-	Chronic NOEC 350 ppm Fresh water	Algae - Algae - Heterosigma	96 hours

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akashiwo Chronic NOEC 20 ppm Algae -96 hours Fresh water Dinoflagellate -Prorocentrum minimum Chronic NOEC 14 ppm Algae -96 hours Fresh water Euglenoid -Eutreptiella sp. Chronic NOEC 0.375 ul/ Fish - Eastern 12 weeks L Fresh water mosquitofish -Gambusia holbrooki -Larvae - 3 days

Products of degradation

: Products of degradation: carbon oxides (CO, CO₂) and water.

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1170	ETHANOL OR ETHYL ALCOHOL OR ETHANOL SOLUTIONS OR ETHYL ALCOHOL SOLUTIONS	3	II	TAMMUST LINES	Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: 5 L Cargo aircraft Quantity limitation: 60 L Special provisions 24, IB2, T4, TP1

Ethanol					
TDG Classification	UN1170	ETHANOL MORE THAN 24 PER CENT ETHANOL, BY VOLUME; ETHANOL SOLUTION MORE THAN 24 PER CENT ETHANOL, BY VOLUME; ETHYL ALCOHOL MORE THAN 24 PER CENT ETHANOL, BY VOLUME; OR ETHYL ALCOHOL SOLUTION MORE THAN 24 PER CENT ETHANOL, BY VOLUME; OR	3		Explosive Limit and Limited Quantity Index 5 Passenger Carrying Road or Rail Index 60
Mexico Classification	UN1170	ETHANOL OR ETHYL ALCOHOL OR ETHANOL SOLUTIONS OR ETHYL ALCOHOL SOLUTIONS	3	nowing to the	Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: 5 L Cargo aircraft Quantity limitation: 60 L Special provisions 24, IB2, T4, TP1

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 15. Regulatory information

United States

HCS Classification : Flammable liquid

Irritating material Carcinogen

Target organ effects

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Fire hazard, Immediate (acute) health hazard,

Delayed (chronic) health hazard

State regulations : Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed. Louisiana Spill: This material is not listed. Massachusetts Spill: This material is not listed. Massachusetts Substances: This material is listed.

Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed. **New Jersey Hazardous Substances**: This material is listed.

New Jersey Spill: This material is not listed.

New Jersey Toxic Catastrophe Prevention Act: This material is not listed. New York Acutely Hazardous Substances: This material is not listed. New York Toxic Chemical Release Reporting: This material is not listed. Pennsylvania RTK Hazardous Substances: This material is listed.

Rhode Island Hazardous Substances: This material is not listed.

Canada

WHMIS (Canada)

: Class B-2: Flammable liquid

Class D-2B: Material causing other toxic effects (Toxic). **CEPA Toxic substances**: This material is not listed.

Canadian ARET: This material is not listed. **Canadian NPRI**: This material is listed.

Alberta Designated Substances: This material is not listed.

Ontario Designated Substances: This material is not listed.

Quebec Designated Substances: This material is not listed.

Section 16. Other information

Label requirements

FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CAN CAUSE CANCER.

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



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



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.