

Safety Data Sheet

Diesel Express Winter

1. Product and company identification

-	
Product name	: Diesel Express Winter
Material uses	: Petrochemical industry: Fuel additive.
Internal code	: F S-000968
System code	: IFS1069
Date of issue/Date of revision	: 2020-01-21
Date of previous issue	: 2020-01-15
Version	: 1.01
Supplier	: Innospec Fuel Specialties LLC 8310 South Valley Highway Suite 350 Englewood CO, 80112 USA
Information contact	: 1-800-441-9547
e-mail address of person responsible for this SDS	: sdsinfo@innospecinc.com
NON-emergency enquiries	: corporatecommunications@innospecinc.com

Emergency telephone number

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

Country information

USA, Canada, Puerto Rico, Virgin Islands
In case of difficulties, or for ships at sea

- : Emergency telephone number
- : +1 800 424 9300
- : +1 703 527 3887

In Europe, Middle East, Africa, Asia Pacific and South America 24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network



The main regional centres are listed here in Section 1.

Other local contact numbers for specific language support in Asia Pacific are listed in Section 16

Country information : Emergency telephone number Location South America (all countries) +1 215 207 0061 Philadelphia USA Brazil +55 11 3197 5891 Brazil Mexico +52 555 004 8763 Mexico Europe (all countries) Middle East, Africa (French, Portuguese, English) +44 (0) 1235 239 670 London, UK Middle East, Africa (Arabic, French, English) +44 (0) 1235 239 671 Lebanon Asia Pacific (all countries except China) +65 3158 1074 Singapore China 400 120 6011 **Beijing China**

Section 2. Hazards	identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 2 ASPIRATION HAZARD - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 H226 - Flammable liquid and vapor. H332 - Harmful if inhaled. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H360 - May damage fertility. H361 - Suspected of damaging the unborn child. H351 - Suspected of causing cancer. H304 - May be fatal if swallowed and enters airways.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling.
Response	 P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Date of issue/Date of revision	• 2020-01-21 2/18

Section 2. Hazards identification

Storage	: P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.
Target organs	 Contains material which causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: lungs, the nervous system, ears.

See toxicological information (Section 11)

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number	
Xylene	30 - 60	1330-20-7	
ethylbenzene	9.99 - 14.99	100-41-4	
Solvent naphtha (petroleum), heavy arom.	4.99 - 9.99	64742-94-5	
2-(2-methoxyethoxy)ethanol	0.99 - 4.99	111-77-3	
Solvent naphtha (petroleum), light arom.	0.99 - 4.99	64742-95-6	
naphthalene	0.99 - 4.99	91-20-3	
1,2,4-trimethylbenzene	0.99 - 4.99	95-63-6	
cumene	0.09 - 0.99	98-82-8	
2-ethylhexanoic acid	0.09 - 0.99	149-57-5	
Proprietary	Proprietary	-	
toluene	0.09 - 0.99	108-88-3	

Any concentration shown as a range is to protect confidentiality or is due to batch variation. **Additional information**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

Section 4. First aid measures

	airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Wash out mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/ef	ects, acute and delayed
Potential acute health effect	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation.
Ingestion	: May be fatal if swallowed and enters airways.
<u>Over-exposure signs/sympt</u>	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate medi	cal attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders
 No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Flash point	: Closed cup: 30°C (86°F) [Pensky-Martens.]

Section 6. Accidental release measures

Personal precautions, protect	iv	e equipment and emergency procedures
For non-emergency personnel	:	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.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

- Large spill
- : 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

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. 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

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
Xylene	ACGIH TLV (United States, 3/2018). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 434 mg/m ³ , 0 times per shift, 8 hours. STEL: 150 ppm, 0 times per shift, 15 minutes. STEL: 651 mg/m ³ , 0 times per shift, 15 minutes OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 435 mg/m ³ , 0 times per shift, 8 hours. STEL: 150 ppm, 0 times per shift, 15 minutes. STEL: 655 mg/m ³ , 0 times per shift, 15 minutes.	
Date of issue/Date of revision	: 2020-01-21	6/18

Section 8. Exposure controls/personal protection

		-	
		OSHA PEL (United States, 5/2018).	
		TWA: 100 ppm, 0 times per shift, 8 hours.	
		TWA: 435 mg/m ³ , 0 times per shift, 8 hours.	
	ethylbenzene	ACGIH TLV (United States, 3/2018).	
		TWA: 20 ppm, 0 times per shift, 8 hours.	
		OSHA PEL 1989 (United States, 3/1989).	
		TWA: 100 ppm, 0 times per shift, 8 hours.	
		TWA: 435 mg/m ³ , 0 times per shift, 8 hours.	
		STEL: 125 ppm, 0 times per shift, 15 minutes.	
		STEL: 545 mg/m ³ , 0 times per shift, 15 minutes.	
		NIOSH REL (United States, 10/2016).	
		TWA: 100 ppm, 0 times per shift, 10 hours. TWA: 435 mg/m ³ , 0 times per shift, 10 hours.	
		STEL: 125 ppm, 0 times per shift, 15 minutes.	
		STEL: 545 mg/m ³ , 0 times per shift, 15 minutes.	
		OSHA PEL (United States, 5/2018).	
		TWA: 100 ppm, 0 times per shift, 8 hours.	
		TWA: 435 mg/m ³ , 0 times per shift, 8 hours.	
	naphthalene	ACGIH TLV (United States, 3/2018). Absorbed through skin.	
		TWA: 10 ppm, 0 times per shift, 8 hours.	
		TWA: 52 mg/m ³ , 0 times per shift, 8 hours.	
		OSHA PEL 1989 (United States, 3/1989).	
		TWA: 10 ppm, 0 times per shift, 8 hours.	
		TWA: 50 mg/m ³ , 0 times per shift, 8 hours.	
		STEL: 15 ppm, 0 times per shift, 15 minutes.	
		STEL: 75 mg/m ³ , 0 times per shift, 15 minutes. NIOSH REL (United States, 10/2016).	
		TWA: 10 ppm, 0 times per shift, 10 hours.	
		TWA: 50 mg/m ³ , 0 times per shift, 10 hours.	
		STEL: 15 ppm, 0 times per shift, 15 minutes.	
		STEL: 75 mg/m ³ , 0 times per shift, 15 minutes.	
		OSHA PEL (United States, 5/2018).	
		TWA: 10 ppm, 0 times per shift, 8 hours.	
		TWA: 50 mg/m ³ , 0 times per shift, 8 hours.	
	1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2018).	
		TWA: 25 ppm, 0 times per shift, 8 hours.	
		TWA: 123 mg/m ³ , 0 times per shift, 8 hours.	
		OSHA PEL 1989 (United States, 3/1989).	
		TWA: 25 ppm, 0 times per shift, 8 hours. TWA: 125 mg/m ³ , 0 times per shift, 8 hours.	
		NIOSH REL (United States, 10/2016).	
		TWA: 25 ppm, 0 times per shift, 10 hours.	
		TWA: 125 mg/m ³ , 0 times per shift, 10 hours.	
	cumene	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.	_
		TWA: 50 ppm, 0 times per shift, 8 hours.	
		TWA: 245 mg/m ³ , 0 times per shift, 8 hours.	
		NIOSH REL (United States, 10/2016). Absorbed through skin.	
		TWA: 50 ppm, 0 times per shift, 10 hours.	
		TWA: 245 mg/m ³ , 0 times per shift, 10 hours. ACGIH TLV (United States, 3/2018).	
		TWA: 50 ppm, 0 times per shift, 8 hours.	
_			
C	Date of issue/Date of revision : 2020-01-21	7/1	18

Section 8. Exposure controls/personal protection

•	• •
	OSHA PEL (United States, 5/2018). Absorbed through skin.
	TWA: 50 ppm, 0 times per shift, 8 hours.
	TWA: 245 mg/m ³ , 0 times per shift, 8 hours.
2-ethylhexanoic acid	ACGIH TLV (United States, 3/2018).
	TWA: 5 mg/m ³ , 0 times per shift, 8 hours. Form: Inhalable fraction
	and vapor
toluene	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm, 0 times per shift, 8 hours.
	TWA: 375 mg/m ³ , 0 times per shift, 8 hours.
	STEL: 150 ppm, 0 times per shift, 15 minutes.
	STEL: 560 mg/m ³ , 0 times per shift, 15 minutes.
	OSHA PEL Z2 (United States, 2/2013).
	TWA: 200 ppm, 0 times per shift, 8 hours.
	CEIL: 300 ppm, 0 times per shift, 0 hours.
	AMP: 500 ppm, 0 times per shift, 10 minutes.
	NIOSH REL (United States, 10/2016).
	TWA: 100 ppm, 0 times per shift, 10 hours.
	TWA: 375 mg/m ³ , 0 times per shift, 10 hours.
	STEL: 150 ppm, 0 times per shift, 15 minutes.
	STEL: 560 mg/m ³ , 0 times per shift, 15 minutes.
	ACGIH TLV (United States, 3/2018).
	TWA: 20 ppm, 0 times per shift, 8 hours.
	······································

Appropriate engineering controls	:	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.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>	
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.
Eye/face protection	:	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, gases 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 protection		
Hand protection	:	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.

Section 8. Exposure controls/personal protection

=	
Body protection	: 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Amber. [Light]
Odor	: Aromatic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point	: Lowest known value: 136.05°C (276.9°F) (ethylbenzene). Weighted average: 150.46°C (302.8°F)
Flash point	: Closed cup: 30°C (86°F) [Pensky-Martens.]
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.63compared with butyl acetate
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.6% Upper: 18.1% (diethylene glycol monomethyl ether)
Vapor pressure	 Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.71 kPa (5.33 mm Hg) (at 20°C)
Vapor density	: Highest known value: 4.6 to 5.5 (Air = 1) (Solvent naphtha (petroleum), heavy arom.). Weighted average: 3.93 (Air = 1)
Density	: 0.898 g/cm ³
Specific gravity	: 0.899 [ASTM D 4052]
Density	: 7.50 lbs/gal
Solubility	: Insoluble in the following materials: cold water, hot water, methanol, diethyl ether.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Lowest known value: 215°C (419°F) (diethylene glycol monomethyl ether).
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0.04 cm²/s (4 cSt)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Incompatible with fluorine.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Dose
Xylene	-	Rabbit	LD50 Dermal	4320 mg/kg -
	-	Rat	LD50 Oral	4300 mg/kg -
ethylbenzene	-	Mouse	LC50 Inhalation	35500 mg/ 2 hours
			Vapor	m ³
	-	Rabbit	LC50 Inhalation	4000 ppm 4 hours
			Vapor	
	-	Rabbit	LD50 Dermal	>5000 mg/ -
Colvert norbthe (notrolever)		Det	LCEO Inholotion	kg
Solvent naphtha (petroleum),	-	Rat	LC50 Inhalation	>590 mg/ 4 hours m ³
heavy arom.		Rabbit	Vapor LD50 Dermal	>2 mL/kg -
		Rabbit	LD50 Dermal	2000 mg/kg -
	-	Rat	LDLo Oral	5 mL/kg -
Solvent naphtha (petroleum),	_	Rat	LD50 Oral	8400 mg/kg -
light arom.		, tat		e lee mgmg
naphthalene	-	Rat	LC50 Inhalation	>340 mg/ 1 hours
•			Vapor	m³
	-	Rabbit	LD50 Dermal	>2000 mg/ -
				kg
	-	Rat	LD50 Oral	490 mg/kg -
cumene	-	Rat	LC50 Inhalation	39000 mg/ 4 hours
			Vapor	m³
	-	Rat	LD50 Oral	1400 mg/kg -
2-ethylhexanoic acid	-	Rabbit	LD50 Dermal	>2000 mg/ -
		Det		kg
Dreprieter	-	Rat	LD50 Oral	3640 mg/kg -
Proprietary	-	Rabbit Rat	LD50 Dermal LD50 Oral	5000 mg/kg -
toluene	-	Rat	LC50 Inhalation	2100 mg/kg - 26700 ppm 1 hours
louene		ιλαι	Vapor	
	_	Rabbit	LD50 Dermal	>5000 mg/ -
			LBCC Donna	kg
	-	Rat	LD50 Oral	5000 mg/kg -
Detential character health offer				

Potential chronic health effects

Not available.

Date of issue/Date of revision : 2020-01-21

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Test	Species	Result	
Xylene	-	Rabbit	Eyes - Severe irritant -	
	-	Rat	Skin - Mild irritant -	
	-	Rabbit	Skin - Moderate irritant -	
ethylbenzene	-	Rabbit	Eyes - Severe irritant -	
	-	Rabbit	Skin - Mild irritant -	
Solvent naphtha (petroleum), heavy arom.	-	Rabbit	Skin - Mild irritant -	
-	-	Mammal -	Eyes - Mild irritant -	
		species		
		unspecified		
2-(2-methoxyethoxy)ethanol	-	Rabbit	Eyes - Mild irritant -	
	-	Rabbit	Eyes - Moderate irritant -	
Solvent naphtha (petroleum), light arom.	-	Rabbit	Eyes - Mild irritant -	
cumene	-	Rabbit	Eyes - Mild irritant -	
	-		Eyes - Mild irritant -	
	-	Rabbit	Skin - Mild irritant -	
	-	Rabbit	Skin - Moderate irritant -	
2-ethylhexanoic acid	-	Rabbit	Skin - Mild irritant -	
toluene	-	Pig	Skin - Mild irritant -	
	-	•	Skin - Moderate irritant -	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Xylene ethylbenzene naphthalene cumene toluene	- - - -	3 2B 2B 2B 3	- - Reasonably anticipated to be a human carcinogen. Reasonably anticipated to be a human carcinogen. -

Reproductive toxicity

Product/ingredient name	Test	Species	Result	Dose
2-ethylhexanoic acid	-	Rat - Male, Female	-	Oral: 600 mg/kg

Teratogenicity

Product/ingredient name			Result	Dose
	EPA 414 Prenatal Developmental Toxicity Study	Rat - Female	-	-

Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 2020-01-21	Date of issue/Date of revision	: 2020-01-21	11/18
---	--------------------------------	--------------	-------

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. 1,2,4-trimethylbenzene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
cumene toluene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
toluene	Category 2		central nervous system (CNS)

Aspiration hazard

Name	Result
Xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Section 12. Ecological information

Toxicity

duct/ingredient name	Result	Species	Exposure
ne A	Acute LC50 3.3 mg/l	Fish	96 hours
Ibenzene A	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
ŀ	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
F	Acute EC50 7.2 mg/l	Algae	48 hours
l l l l l l l l l l l l l l l l l l l	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
C	Chronic NOEC <1000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
0	Chronic NOEC 6800 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 1 to 3 mg/l	Algae	72 hours
, All All All All All All All All All Al	Acute EC50 3 to 10 mg/l	Daphnia	48 hours
l l l l l l l l l l l l l l l l l l l	Acute LC50 2 to 5 mg/l	Fish	96 hours
-methoxyethoxy)ethanol	Acute LC50 7500000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
nthalene A	Acute EC50 1.96 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ļ.	Acute LC50 2350 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
l l l l l l l l l l l l l l l l l l l	Acute LC50 1.6 mg/l	Fish	96 hours
0	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - Uca pugnax - Adult	3 weeks
	Chronic NOEC 1.5 mg/l Fresh water	Fish - Oreochromis mossambicus	60 days
	Acute LC50 7.72 mg/l	Fish	96 hours
ene A	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
5	5		72

Section 12. Ecological information

	Acute EC50 10.6 mg/l	Daphnia	48 hours
	Acute LC50 2.7 mg/l	Fish	96 hours
2-ethylhexanoic acid	EC50 85.4 mg/l	Daphnia	48 hours
Proprietary	LC50 0.14 mg/l	Fish - Atlantic salmon	96 hours
	Acute EC50 0.037 mg/l	Daphnia	48 hours
	Acute LC50 24 mg/l	Fish	96 hours
toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6 mg/l	Daphnia	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 5.8 mg/l	Fish	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

Persistence and degradability

Product/ingredient name	Test		Result		
2-ethylhexanoic acid	-		83 % - Readily - 20 days		
	301D Ready Biodegradability -	301D Ready Biodegradability - Closed Bottle Test			
Proprietary	OECD 301B Ready Biodegrada	ability - CO ₂ Evolution Test	78 % - Readily - 28 days		
	OECD 301B 301B Ready Biode	egradability - CO2	25 % - Inherent - 28 days		
	Evolution Test				
	OECD 302D 302D Inherent Bio	odegradability -	10 % - Inherent - 56 days		
	CONCAWE Test	ONCAWE Test			
	OECD 301B 301B Ready Biode	6 % - Inherent - 28 days			
	Evolution Test				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability		
Xylene	-	-	Readily		
ethylbenzene	-	-	Readily		
Solvent naphtha (petroleum),	-	-	Inherent		
heavy arom.					
2-ethylhexanoic acid	-	-	Readily		
Proprietary	-	50%; < 28 day(s)	Inherent		
toluene	-	-	Readily		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12 to 3.2	8.1 to 25.9	low
ethylbenzene	3.1	-	low
Solvent naphtha (petroleum),	-	<100	low
heavy arom.			
2-(2-methoxyethoxy)ethanol	-1.14 to 0.93	-	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			
naphthalene	3.3	>100	low
1,2,4-trimethylbenzene	4.09	275	low
cumene	3.66	94.69	low
2-ethylhexanoic acid	2.7	-	low
Proprietary	5.5	823	high
toluene	2.65	90	low

Date of issue/Date of revision : 2020-01-21

13/18

Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any byproducts 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.

Additional informationReportable quantity 237.19 lbs / 107.68 kg [31.678 gal / 119.91 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Exceptions: 150. Non-bulk: 203. Bulk: 242.The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules Special provisions 223, 274, 955The environmentally hazard substance mark may appea required by other transporta regulations. Quantity limitation Passer and Cargo Aircraft: 60 L. Packaging instructions: 356 Cargo Aircraft Only: 220 L. Packaging instructions: 150. Non-bulk: 203. Bulk: 242.The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules Special provisions 223, 274, 955The environmentally hazard substance mark may appea required by other transporta regulations. Quantity limitation Passer and Cargo Aircraft Only: 220 L. Packaging instructions: 356 Cargo Aircraft Only: 220 L. Packaging instructions: 366 Limited Quantities - Passer Aircraft: 10 L. Packaging instructions: Y344.		DOT Classification	IMDG	ΙΑΤΑ
shipping name (xylene, ethylbenzene). Marine pollutant (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), light arom.) RQ (xylene) (xylene, ethylbenzene). Marine pollutant (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), light arom.) (xylene, ethylbenzene). Marine pollutant (Solvent naphtha (petroleum), light arom.) Transport hazard class(es) 3 3 3 Packing group III III III Environmental hazards No. Yes. Yes. The environmentally hazardous substance mark not required. Additional information Reportable quantity 237.19 lbs / 107.68 kg [31.678 gal / 119.91 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instructions: 356 The marine pollutant mark is not required. Set or 55 kg. Secial provisions 223, 274, 955 The environmentally hazard Cargo Aircraft Col L. Packaging instructions: 356 Cargo Aircraft Col L. Pack	UN number	UN1993	UN1993	UN1993
hazard class(es) Image: Constraint of the product reportable quantity 237.19 Image: Constraint of the product reportable quantity 237.19 Additional information Reportable quantity 237.19 The marine pollutant mark is not required. The environmentally hazardous substance mark not required. Additional information Reportable quantity 237.19 The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear equired by other transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E		(xylene, ethylbenzene). Marine pollutant (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum),	(xylene, ethylbenzene). Marine pollutant (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum),	
Environmental hazardsNo.Yes.Yes. The environmentally hazardous substance mark not required.Additional informationReportable quantity 237.19 lbs / 107.68 kg [31.678 gal / 119.91 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Exceptions: 150. Non-bulk: 203. Bulk: 242.Yes.Yes. The environmentally hazardous substance mark not required when transported 				3
hazardshazardous substance mark not required.Additional informationReportable quantity lbs / 107.68 kg [31.678 gal / 119.91 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Exceptions: 150. Non-bulk: 203. Bulk: 242.The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules SPE_ Special provisions 223, 274, 955The environmentally hazardous substance mark may appead required by other transportation Passer and Cargo Aircraft 60 L. Packaging instructions: 355 Cargo Aircraft Only: 220 L. Packaging instructions: 366 Limited Quantities - Passer Aircraft: 10 L. Packaging instructions: Y344.	Packing group	Ш	Ш	
informationIbs / 107.68 kg [31.678 gal / 119.91 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Exceptions: 150. Non-bulk: 203. Bulk: 242.not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules S-E_ Special provisions 223, 274, 955substance mark may appeading the required by other transportation required by other transportation Passer and Cargo Aircraft Only: 220 L. Packaging instructions: 366 Limited Quantities - Passer Aircraft: 10 L. Packaging instructions: Y344.		No.	Yes.	hazardous substance mark is
aircraft/rail: 60 L. Cargo aircraft: 220 L. <u>Special provisions</u> B1, B52, IB3, T4, TP1, TP29		Ibs / 107.68 kg [31.678 gal / 119.91 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Exceptions: 150. Non-bulk: 203. Bulk: 242. Quantity limitation Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L. Special provisions B1, B52,	not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, _S-E_ <u>Special provisions</u> 223, 274,	Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.

Section 14. Transport information

Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 5(a)2 final significant new use rules: 4-nonylphenol, branched

United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: toluene; ethylbenzene; naphthalene

Clean Air Act Section 112 : Listed (b) Hazardous Air Pollutants (HAPs)

SARA 302/304

Composition/information on ingredients

	SARA 302 TPQ SARA 304 RQ		SARA 302 TPQ		RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
··· , · · · · · · · · · · · · · · · · · · ·	0 - 0.09 0 - 0.09	Yes. Yes.	10000 500	1337.1 55	5000 100	668.5 11

SARA 304 RQ

: 816832.2 lbs / 370841.8 kg [109093.6 gal / 412964.1 L]

SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Xylene	30 - 60	Yes.	No.	No.	Yes.	No.
ethylbenzene	9.99 - 14. 99	Yes.	No.	No.	Yes.	Yes.
Solvent naphtha (petroleum), heavy arom.	4.99 - 9.99	Yes.	No.	No.	Yes.	No.
2-(2-methoxyethoxy)ethanol	0.99 - 4.99	Yes.	No.	No.	No.	Yes.
Solvent naphtha (petroleum), light arom.	0.99 - 4.99	Yes.	No.	No.	Yes.	No.
naphthalene	0.99 - 4.99	No.	No.	No.	Yes.	Yes.
1,2,4-trimethylbenzene	0.99 - 4.99	Yes.	No.	No.	Yes.	No.
cumene	0.09 - 0.99	Yes.	No.	No.	Yes.	Yes.
2-ethylhexanoic acid	0.09 - 0.99	No.	No.	No.	No.	Yes.
Proprietary	Proprietary	No.	No.	No.	Yes.	Yes.
toluene	0.09 - 0.99	Yes.	No.	No.	Yes.	Yes.

<u>SARA 313</u>

Date of issue/Date of revision	: 2020-01-21	15/18

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	xylene ethylbenzene diethylene glycol monomethyl ether naphthalene 1,2,4-trimethylbenzene	1330-20-7 100-41-4 111-77-3 91-20-3 95-63-6	30 - 60 9.99 - 14.99 0.99 - 4.99 0.99 - 4.99 0.99 - 4.99 0.99 - 4.99
Supplier notification	xylene ethylbenzene diethylene glycol monomethyl ether naphthalene 1,2,4-trimethylbenzene	1330-20-7 100-41-4 111-77-3 91-20-3 95-63-6	30 - 60 9.99 - 14.99 0.99 - 4.99 0.99 - 4.99 0.99 - 4.99 0.99 - 4.99

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

<u>otato roganationo</u>	
Massachusetts	 The following components are listed: XYLENE; DIMETHYLBENZENE; PSEUDOCUMENE; NAPHTHALENE; DIETHYLENE GLYCOL METHYL ETHER; XYLENE; DIMETHYLBENZENE; XYLENE; DIMETHYLBENZENE
New York	 The following components are listed: Xylene mixed; Naphthalene; Xylene mixed; Xylene mixed; Cumene; Benzene, 1-methylethyl-
New Jersey	: The following components are listed: XYLENES; BENZENE, DIMETHYL-; PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; NAPHTHALENE; MOTH FLAKES; GLYCOL ETHERS; XYLENES; BENZENE, DIMETHYL-; XYLENES; BENZENE, DIMETHYL-; CUMENE; BENZENE, (1-METHYLETHYL)-
Pennsylvania	 The following components are listed: BENZENE, DIMETHYL-; PSEUDOCUMENE; NAPHTHALENE; ETHANOL, 2-(2-METHOXYETHOXY)-; BENZENE, DIMETHYL-; BENZENE, DIMETHYL-; BENZENE, (1-METHYLETHYL)-
California Prop. 65	: WARNING : This product can expose you to chemicals including ethylbenzene, naphthalene, cumene, formaldehyde, which are known to the State of California to cause cancer, and 2-ethylhexanoic acid, toluene, 2-methoxyethanol; ethylene glycol monomethyl ether, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level	Contains : % or ppm
ethylbenzene	Yes.	No.			≥10 - ≤18
naphthalene	Yes.	No.			≤3
cumene	Yes.	No.			≤0.3
2-ethylhexanoic acid	No.	Yes.			≤0.3
toluene	No.	Yes.			≤0.3
Formaldehyde, solution	Yes.	No.			<0.1
ethylene glycol monomethyl ether	No.	Yes.			<0.1

International lists

National inventory

Australia inventory (AICS)

Canada inventory

China inventory (IECSC)

Europe inventory

- : At least one component is not listed.
- : All components are listed or exempted.
- : At least one component is not listed.
- : Not determined.

Section 15. Regulatory information

Japan inventory (ENCS)

New Zealand Inventory of Chemicals (NZIoC) **Philippines inventory (PICCS)** Korea inventory (KECI) **Taiwan inventory (TCSI)**

- : Japan inventory (ENCS): At least one component is not listed. Japan inventory (ISHL): Not determined.
 - At least one component is not listed.
 - At least one component is not listed.
 - At least one component is not listed.
- All components are listed or exempted. All components are listed or exempted.
- United States inventory (TSCA 8b)

Our REACH (pre-) registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and

2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our (pre-) registrations Customers and other third parties importing and/or re-importing our products into Europe will need either:

- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or

- In the case of importation only, to make use of the "Only Representative" provisions, if available.

Section 16. Other information

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



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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



Reprinted with permission from NFPA 704-2001. Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

: 2020-01-21
: 2020-01-21
: 2020-01-15
: 1.01

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Indicates information that has changed from previously issued version.

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.