SAFETY DATA SHEET



Flammable Liquid Mixture: 1,4-Diethylbenzene 1-9999ppm / M-Xylene 99%

Section 1. Identification

GHS product identifier	: Flammable Liquid Mixture: 1,4-Diethylbenzene 1-9999ppm / M-Xylene 99%
Other means of identification	: Not available.
Product use	: Synthetic/Analytical chemistry.
SDS #	: 012842
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
24-hour telephone	: 1-866-734-3438

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 1 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Extremely flammable liquid and vapor. May form explosive mixtures with air. Harmful if inhaled. Causes skin irritation.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: Not available.

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 012842

Ingredient name	%	CAS number
m-xylene	99	108-38-3
1,4-diethylbenzene	0.0001 - 0.9999	105-05-5

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

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	ary 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 adverse health effects persist or are severe. If necessary, call a poison center or physician. 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.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. 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/effects, acute and delayed

Potential acute health effe	ects				
Eye contact	: No known	significant effects or critica	al hazards.		
Inhalation	: Harmful if	inhaled.			
Skin contact	: Causes sl	kin irritation.			
Frostbite	: Try to war	m up the frozen tissues an	d seek medical attention.		
Ingestion	: No known	significant effects or critica	al hazards.		
Over-exposure signs/sym	<u>ptoms</u>				
Eye contact	: Adverse s	ymptoms may include the	following:, pain or irritatio	n, watering, redness	
Inhalation	: No specifi	c data.			
Skin contact	: Adverse s	ymptoms may include the	following:, irritation, redne	ess	
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Section 4. First aid measures

Ingestion	: No specific data.	
Indication of immediate me	dical attention and special treatment needed, if necessary	
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 	
Specific treatments	: No specific treatment.	
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.	

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	: Extremely 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
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.

Section 6. Accidental release measures

Personal precautions, protective 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 specialised 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.

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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	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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 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

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
m-xylene	NIOSH REL (United States, 10/2013).
	STEL: 655 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 435 mg/m ³ 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 655 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 3/2016).
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m ³ 15 minutes.
1,4-diethylbenzene	None.

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Section 8. Exposure controls/personal protection

Environmental exposure controlsEmit they case will IIndividual protection measuresWas eatin App Was showEye/face protectionSafe asse gase the aSkin protectionChe worr nece during	ilation equipment.
Hygiene measures : Was eatin App Was show Eye/face protection : Safe asse gase the asse gase gase gase the asse gase gase the asse gase gase gase the as	ssions from ventilation or work process equipment should be checked to ensure comply with the requirements of environmental protection legislation. In some s, fume scrubbers, filters or engineering modifications to the process equipment be necessary to reduce emissions to acceptable levels.
eatin App Was show Eye/face protection : Safe asse gase the a Skin protection Hand protection : Che worn nece durit	
asse gase the a Skin protection Hand protection : Che worn nece durin	th hands, forearms and face thoroughly after handling chemical products, before ng, smoking and using the lavatory and at the end of the working period. ropriate techniques should be used to remove potentially contaminated clothing. th contaminated clothing before reusing. Ensure that eyewash stations and safety wers are close to the workstation location.
Hand protection : Che worn nece durit	ty eyewear complying with an approved standard should be used when a risk essment indicates this is necessary to avoid exposure to liquid splashes, mists, es or dusts. If contact is possible, the following protection should be worn, unless assessment indicates a higher degree of protection: chemical splash goggles.
wori nece duri	
glov	mical-resistant, impervious gloves complying with an approved standard should be at all times when handling chemical products if a risk assessment indicates this is essary. Considering the parameters specified by the glove manufacturer, check ng use that the gloves are still retaining their protective properties. It should be d that the time to breakthrough for any glove material may be different for different e manufacturers. In the case of mixtures, consisting of several substances, the ection time of the gloves cannot be accurately estimated.
perf han stati	conal protective equipment for the body should be selected based on the task being brmed and the risks involved and should be approved by a specialist before dling this product. When there is a risk of ignition from static electricity, wear anti- c protective clothing. For the greatest protection from static discharges, clothing uld include anti-static overalls, boots and gloves.
base	ropriate footwear and any additional skin protection measures should be selected ad on the task being performed and the risks involved and should be approved by a sialist before handling this product.
stan base	a properly fitted, air-purifying or air-fed respirator complying with an approved dard if a risk assessment indicates this is necessary. Respirator selection must be ed on known or anticipated exposure levels, the hazards of the product and the safe sing limits of the selected respirator.
Section 9. Physical and	I chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Boiling/condensation point	: Lowest known value: 139.1°C (282.4°F) (m-xylene).
Melting/freezing point	: May start to solidify at the following temperature: -47.9°C (-54.2°F) This is based on data for the following ingredient: m-xylene.
Critical temperature	: Lowest known value: 343.85°C (650.9°F) (m-xylene).
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Flash point	: Closed cup: 27°C (80.6°F)
Burning time	: Not applicable.

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Section 9. Physical and chemical properties

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Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Highest known value: 3.7 (Air = 1) (m-xylene).
Gas Density (lb/ft ³)	: Only known value: 0.868 (m-xylene).
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
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.

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
m-xylene	LD50 Oral	Rat	4988 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

	<u> </u>				
Product/ingredient name	Result	Species	Score	Exposure	Observation
m-xylene	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 10 Micrograms	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
m-xylene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following:, pain or irritation, watering, redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:, irritation, redness
Ingestion	: No specific data.

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Long term exposure					
Potential delayed effects	: Not available	е.			
Potential immediate effects	: Not available	е.			
<u>Short term exposure</u>					
Delayed and immediate effe	<u>cts and also chr</u>	<u>conic effects from short</u>	and long term exposur	<u>e</u>	

Section 11. Toxicological information

	-
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
Oral Inhalation (vapors)	5038.4 mg/kg 11.11 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
m-xylene	Acute EC50 4900 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 5770 to 7640 μg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 23600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8400 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
m-xylene		8.1 to 25.9	low
1,4-diethylbenzene		478.63	low

Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: 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.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
Xylene	108-38-3	Listed	U239

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	ΙΑΤΑ
UN number	UN3161	UN3161	UN3161	UN3161	UN3161
UN proper shipping name	Liquefied gas, flammable n.o.s. (m- xylene,1, 4-diethylbenzene)	Liquefied gas, flammable n.o.s. (m- xylene,1, 4-diethylbenzene)	Liquefied gas, flammable n.o.s. (m- xylene,1, 4-diethylbenzene)	Liquefied gas, flammable n.o.s. (m- xylene,1, 4-diethylbenzene)	Liquefied gas, flammable n.o.s. (m- xylene,1, 4-diethylbenzene)
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	Reportable quantity 1010.1 lbs / 458.59 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). Explosive Limit and Limited Quantity Index 0.125 ERAP Index 3000 Passenger Carrying Ship Index Forbidden Passenger Carrying Road or Rail Index Forbidden	-	-	-

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

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.

Transport in bulk according : Not available. to Annex II of MARPOL

73/78 and the IBC Code

Section 15. Regulatory information					
J.S. Federal regulations	 TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. 				
		, ,	exempted.		
	Clean Water Act (CWA) 311: m	I-xylene			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
Clean Air Act Section 602 Class II Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
DEA List II Chemicals (Essential Chemicals)	: Not listed				
SARA 302/304					
Composition/information	<u>on ingredients</u>				
No products were found.					
SARA 304 RQ	: Not applicable.				
SARA 311/312					
Classification	: Refer to Section 2: Hazards Identification of this SDS for classification of substance.				
<u>SARA 313</u>					
	Product name	CAS number	%		
Form R - Reporting requirements	m-xylene	108-38-3	99		
Supplier notification	m-xylene	108-38-3	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	
Massachusetts	: The following components are listed: M-XYLENE; M-DIMETHYLBENZENE
New York	: The following components are listed: m-Xylene
New Jersey	: The following components are listed: m-XYLENE; BENZENE, 1,3-DIMETHYL-
Pennsylvania	: The following components are listed: BENZENE, 1,3-DIMETHYL-
International regulations	
International lists	
National inventory	
Australia	: Not determined.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.

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Section 15. Regulatory information

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Japan	: All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
<u>Canada</u>	
WHMIS (Canada)	: Class B-2: Flammable liquid Class D-2B: Material causing other toxic effects (Toxic).
	CEPA Toxic substances: None of the components are listed. Canadian ARET: None of the components are listed. Canadian NPRI: The following components are listed: Xylene (all isomers) Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

Section 16. Other information

Canada Label requirements : Class B-2: Flammable liquid Class D-2B: Material causing other toxic effects (Toxic).

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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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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.

Procedure used to derive the classification

Classification			Justification				
Flam. Liq. 1, H224 Acute Tox. 4, H332 Skin Irrit. 2, H315			Calcula	judgment tion method tion method			
History Date of printing	: 6/16/2017						
Date of issue/Date of revision	: 6/16/2017	Date of previous	issue	: No previous validation	Version	:1	11/12

Section 16. Other information

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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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

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.