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1053-F Solvent

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: 1053-F Solvent PRODUCT USE: Solvent CHEMICAL FAMILY: Mixture CAS NO.: NOT AVAILABLE (MIXTURE) Not recommended for: Consumer Use Manufacturer/Supplier: PANNIER CORPORATION 207 SANDUSKY STREET PITTSBURGH, PA 15212-5823 U.S.A. 24 Hr Emergency Telephone Number: Infotrac 1-800-535-5053

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture Classification (GHS-US)	
Flammable liquids	H225
Category 3	
Carcinogenicity	H350
Category 1A	
Specific target organ toxicity (repeated exposure)	H373
Category 2	
Full text of H statements : see section 16	
Label elements	

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :	Danger
Hazard statements (GHS-US) :	H225 - Highly hammable liquid and vapor H350 - May cause cancer (oral)
	H373 - May cause damage to organs (central nervous system, liver,
	kidneys) through prolonged or repeated exposure (oral)
Precautionary statements (GHS-US) :	P201 - Obtain special instructions before use
	P202 - Do not handle until all safety precautions have been read and understood
	P210 - Keep away from heat, hot surfaces, sparks, open flames No smoking
	P233 - Keep container tightly closed
	P240 - Ground/bond container and receiving equipment
	P241 - Use explosion-proof electrical, lighting, ventilating equipment
	P242 - Use only non-sparking tools
	P243 - Take precautionary measures against static discharge
	P260 - Do not breathe fume, mist, spray, vapors
	P280 - Wear eye protection, face protection, face shield, protective
	clothing, protective gloves
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician
	P303+P361+P353 - If on skin (or hair): Take off immediately all
	contaminated clothing. Rinse skin with water/shower

P308+P313 - If exposed or concerned: Get medical advice/attention P314 - Get medical advice/attention if you feel unwell

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P331: Do NOT induce vomiting P370+P378 - In case of fire: Use ABC-powder, alcohol resistant foam, an extinguishing blanket, carbon dioxide (CO2), sand to extinguish P403+P235 - Store in a well-ventilated place. Keep coolP405 - Store locked up

P501 - Dispose of contents/container to a hazardous or special waste collection point, an approved waste disposal plant, an authorized waste collection point, an industrial incineration plant, hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Other hazards

No additional information available Unknown acute toxicity (GHS US) Not applicable

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance			
Not applicable			
Mixture			
Name	Product identifier	%	Classification (GHS-US)
ethanol	(CAS No) 64-17-5	81 - 100	Flam. Liq. 2, H225
			Carc. 1A, H350
methyl isobutyl ketone	(CAS No) 108-10-1	1.9 - 10	Flam. Liq. 2, H225
			Acute Tox. 4 (Inhalation:dust,mist),
			H332
			Carc. 2, H351
			STOT SE 3, H335
methanol	(CAS No) 67-56-1	0.9 - 5	Flam. Liq. 2, H225
ethyl acetate	(CAS No) 141-78-6	1 - 5	Flam. Liq. 2, H225
			STOT SE 3, H336
hexane	(CAS No) 110-54-3	1 - 5	Flam. Liq. 2, H225
			Skin Irrit. 2, H315
			STOT SE 3, H336
			STOT RE 2, H373
			Asp. Tox. 1, H304
			Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. **Most important symptoms and effects, both acute and delayed**

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use. **Indication of any immediate medical attention and special treatment needed** No additional information available

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing media

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Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand. **Unsuitable extinguishing media:** Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures For non-emergency personnel Emergency procedures: Evacuate unnecessary personnel. For emergency responders Protective equipment: Equip cleanup crew with proper protection. Emergency procedures: Ventilate area. Environmental precautions Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Methods and material for containment and cleaning up Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Reference to other sections See Heading 8. Exposure controls and personal protection.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. **Conditions for safe storage, including any incompatibilities**

Storage conditions: Keep only in the original container in a cool, well ventilated place away from direct sunlight **Incompatible products**: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION Control parameters

e en la parameter	•	
ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
methanol (67-56-1)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
methyl isobutyl keto	one (108-10-1)	
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	75 ppm
ACGIH	Remark (ACGIH)	URT irr; dizziness; headache
OSHA	OSHA PEL (TWA) (mg/m ³)	410 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
ethyl acetate (141-7	78-6)	
ACGIH	ACGIH TWA (ppm)	400 ppm
ACGIH	ACGIH STEL (ppm)	400 ppm
ACGIH	Remark (ACGIH)	URT & eye irr
ethyl acetate (141-	-78-6)	-

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OSHA	OSHA PEL (TWA) (mg/m³)	1400 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
hexane (110-54-3)			
ACGIH	ACGIH TWA (ppm)	50 ppm	
ACGIH	ACGIH STEL (ppm)	50 ppm	
ACGIH	Remark (ACGIH)	CNS impair; peripheral	
OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	500 ppm	
Exposure controls			

Exposure controls

Personal protective equipment: Avoid all unnecessary exposure. Hand protection: Wear protective gloves. Eye protection: Chemical goggles or safety glasses. Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Physical state: Liquid Appearance: Liquid. Color: Colorless Odor: characteristic Odor threshold: 100 ppm 188 mg/m³ 7 (10 g/l) pH: 10 g/l pH solution: Melting point: -114 °C Freezing point: No data available Boiling point: 78.2 °C Critical temperature: 243 °C Critical pressure: 63840 hPa Flash point: 12 °C Relative evaporation rate (butyl acetate=1): 2.4 Relative evaporation rate (ether=1): 8.3 Flammability (solid, gas): No data available **Explosion limits:** 3.3 - 15.0 vol % Explosive properties: No data available Oxidizing properties: No data available Vapor pressure: 59 hPa 0.79 Relative density: Relative vapor density at 20 °C: 1.03 Relative density of saturated gas/air mixture: 1.04 Specific gravity / density: 785 kg/m³ Molecular mass: 46.07 g/mol Solubility: Soluble in water. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in oils/fats. Soluble in methanol. Soluble in acids. Log Pow -0.35 (Experimental value; OECD 107: Partition Coefficient (noctanol/water): Shake Flask Method; 24 °C) 363 °C Auto-ignition temperature: Decomposition temperature: No data available Viscosity: No data available Viscosity, kinemati: No data available Viscosity, dynamic: 1.19 mPa.s (20 °C) Other information Specific conductivity: 130000 pS/m Saturation concentration: 112 g/m³ VOC content: 100 % (By volume calculated)

SECTION 10 - STABILITY AND REACTIVITY

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Reactivity No additional information available Chemical stability Not established. Possibility of hazardous reactions Not established. Conditions to avoid Direct sunlight. Extremely high or low temperatures. Incompatible materials Strong acids. Strong bases. Hazardous decomposition products fume. Carbon monoxide. Carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicologica	al effects
Acute toxicity:	Not classified
ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740.000 mg/kg body weight
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (dermal)	15800.000 mg/kg body weight
ATE US (gases)	64000.000 ppmV/4h
ATE US (vapors)	85.000 mg/l/4h
ATE US (dust, mist)	85.000 mg/l/4h
methyl isobutyl ketone (108	3-10-1)
LD50 oral rat	2080 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	>= 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	8.2-16.4,Rat; Experimental value
LC50 inhalation rat (ppm)	2000 - 4000 ppm/4h (Rat; Experimental value)
ATE US (oral)	2080.000 mg/kg body weight
ATE US (gases)	2000.000 ppmV/4h
ATE US (dust, mist)	1.500 mg/l/4h
ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 10200 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 18000 mg/kg (Rabbit; Experimental value; 24 hour cuff method; >20000 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	70.56 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	19600 ppm/4h (Rat)
ATE US (oral)	5620.000 mg/kg body weight
ATE US (gases)	19600.000 ppmV/4h
ATE US (vapors)	70.560 mg/l/4h
ATE US (dust, mist)	70.560 mg/l/4h
hexane (110-54-3)	
LD50 oral rat	25000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	3000 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (ppm)	48000 ppm/4h (Rat; Literature study)
ATE US (oral)	25000.000 mg/kg body weight
ATE US (dermal)	3000.000 mg/kg body weight
ATE US (gases)	48000.000 ppmV/4h
Skin corrosion/irritation:	Not classified pH: 7 (10 g/l)

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1053-F Solvent Revision 10/2/2017 Page 6 of 11 Serious eye damage/irritation: Not classified pH: 7 (10 g/l) Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: May cause cancer (oral). ethanol (64-17-5) IARC group 1 - Carcinogenic to humans methyl isobutyl ketone (108-10-1) 2B - Possibly carcinogenic to humans IARC group Reproductive toxicity: Not classified Specific target organ toxicity (single exposure): Not classified Specific target organ toxicity (repeated exposure): May cause damage to organs (central nervous system, liver, kidneys) through prolonged or repeated exposure (oral). Aspiration hazard: Not classified Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met. **SECTION 12 - ECOLOGICAL INFORMATION** Toxicity ethanol (64-17-5) LC50 fish 1 1 4200 mg/l (96 h; Pimephales promelas; Nominal concentration) 9300 mg/l (48 h; Daphnia magna) EC50 Daphnia 1 13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) LC50 fish 2 EC50 Daphnia 2 10800 mg/l (24 h; Daphnia magna) Threshold limit other aquatic organisms 1 65 mg/l (72 h; Protozoa) Threshold limit algae 1 1450 mg/l (192 h; Microcystis aeruginosa; Growth rate) 5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate) Threshold limit algae 2 methanol (67-56-1) LC50 fish 1 15400 mg/l (96 h; Lepomis macrochirus; Lethal) EC50 Daphnia 1 >10000 mg/l (48 h; Daphnia magna; Lethal) 10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) LC50 fish 2 24500 mg/l (48 h; Daphnia magna; Locomotor effect) EC50 Daphnia 2 Threshold limit other aquatic organisms 1 6600 mg/l (16 h; Pseudomonas putida) Threshold limit algae 1 530 mg/l (192 h; Microcystis aeruginosa) Threshold limit algae 2 8000 mg/l (168 h; Scenedesmus quadricauda) methyl isobutyl ketone (108-10-1) LC50 fish 1 505 mg/l (96 h; Pimephales promelas; GLP) 170 mg/l (48 h; Daphnia magna; Static system) EC50 Daphnia 1 EC50 other aquatic organisms 1 400 mg/l (96 h; Selenastrum capricornutum; Growth rate) 600 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) LC50 fish 2 EC50 Daphnia 2 >1000 mg/l (48 h; Daphnia magna; GLP) Threshold limit algae 1 136 mg/l (Microcystis aeruginosa) Threshold limit algae 2 725 mg/l (8 days; Scenedesmus quadricauda; Nominal concentration) ethyl acetate (141-78-6) LC50 fish 1 454.7 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) EC50 Daphnia 1 2500 mg/l (24 h; Daphnia magna) LC50 fish 2 230 mg/l (96 h; Pimephales promelas) EC50 Daphnia 2 154 mg/l (48 h; Daphnia magna) 100-1000,96 h; Pisces TLM fish 1 TLM other aquatic organisms 1 100-1000.96 h Threshold limit algae 1 2000 mg/l (96 h; Selenastrum capricornutum; Biomass) 15 mg/l (192 h; Scenedesmus quadricauda; Growth rate) Threshold limit algae 2 hexane (110-54-3) 2.5 mg/l (96 h; Pimephales promelas) LC50 fish 1 EC50 Daphnia 1 2.1 mg/l (48 h; Daphnia magna) 4 mg/l (24 h; Carassius auratus) LC50 fish 2 EC50 Daphnia 2 0.4 mg/l (96 h; Chaetogammarus marinus) Threshold limit other aquatic organisms 1 9.049 mg/l (Protozoa) Threshold limit algae 1 10 mg/l (Laminariales; Photosynthesis) Threshold limit algae 2 26 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) Persistence and degradability 1053 F Solvent (Mixture) Persistence and degradability Not established. ethanol (64-17-5)

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Persistence and degradability

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD

methanol (67-56-1)

Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) **methyl isobutyl ketone (108-10-1)** Persistence and degradability

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) **ethyl acetate (141-78-6)** Persistence and degradability

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD **hexane (110-54-3)** Persistence and degradability

ThOD BOD (% of ThOD) **Bioaccumulative potential 1053 F Solvent (Mixture)** Log Pow

Bioaccumulative potential ethanol (64-17-5) Log Pow

Bioaccumulative potential **methanol (67-56-1)** BCF fish 1 BCF fish 2 Log Pow Bioaccumulative potential **methyl isobutyl ketone (108-10-1)** BCF fish 1 Log Pow

Bioaccumulative potential ethyl acetate (141-78-6) BCF fish 1 Log Pow Bioaccumulative potential hexane (110-54-3) BCF fish 1 Log Pow Bioaccumulative potential Mobility in soil ethanol (64-17-5) Surface tension 0.0245 N/m (20 °C) methanol (67-56-1) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. 0.8 - 0.967 g O_2/g substance 1.70 g O_2/g substance 2.10 g O_2/g substance

Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. 0.6 - 1.12 g O_2/g substance 1.42 g O_2/g substance 1.5 g O_2/g substance 0.8 % ThOD

Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Low potential for adsorption in soil. Photolysis in the air. 2.06 g O_2/g substance

2.16 g O_2/g substance 2.72 g O_2/g substance 0.76 % ThOD

Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. 0.293 g O_2/g substance 1.69 g O_2/g substance 1.82 g O_2/g substance

Readily biodegradable in water. Photooxidation in water. Biodegradable in the soil. 3.52 g O $_{\rm 2}/g$ substance 0.63 % ThOD

-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C) Not established.

-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C) Low potential for bioaccumulation (Log Kow < 4).

< 10 (72 h; Leuciscus idus) 1 (72 h; Cyprinus carpio; Blood) -0.77 (Experimental value; Other) Low potential for bioaccumulation (BCF < 500).

2 - 5 (Pisces)
1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Low potential for bioaccumulation (BCF < 500).

30 (3 days; Leuciscus idus) 0.68 (Experimental value; EPA OPPTS 830.7560; 25 °C) Low potential for bioaccumulation (BCF < 500).

501.187 (Pimephales promelas) 3.5 - 3.94 (Calculated) Bioaccumable.

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Surface tension methyl isobutyl ketone (108-10	0.023 N/m (20 °C) 0-1)		
Surface tension ethyl acetate (141-78-6)	, 0.024 N/m (20 °C)		
Surface tension hexane (110-54-3)	0.024 N/m (20 °C)		
Surface tension 12.5. Other adverse effects	0.018 N/m		
Effect on the global warming: Other information:	No known ecologic Avoid release to the	al damage caused by this product. e environment.	

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods Waste disposal recommendations:

Ecology - waste materials:

Dispose in a safe manner in accordance with local/national regulations. an approved hazardous waste plant and/or drum reconditioner. Avoid release to the environment.

SECTION 14 - TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT Transport document description: UN-No.(DOT): Proper Shipping Name (DOT): Class (DOT): Hazard labels (DOT):

UN1987 Alcohols, n.o.s., 3, II UN1987 Alcohols, n.o.s. 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid



Packing group (DOT): II - Medium Danger DOT Packaging Non Bulk (49 CFR 173.xxx): 202 DOT Packaging Bulk (49 CFR 173.xxx): 242

DOT Special Provisions (49 CFR 172.102):

172 - This entry includes alcohol mixtures containing up to 5% petroleum products

. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk

temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F)

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on

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the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP

- DOT Packaging Exceptions (49 CFR 173.xxx): 4b;150
- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 5 L
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 60 L DOT Vessel Stowage Location:

B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded

Emergency Response Guide (ERG) Number: Other information: TDG No additional information available Transport by sea

No additional information available

No additional information available

No supplementary information available.

SECTION 15 - REGULATORY INFORMATION

US Federal regulations

ethanol (64-17-5)

Air transport

Listed on the United States TSCA (Toxic Substances Control Act) inventory methanol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 5000 lb

CERCLA RQ

methyl isobutyl ketone (108-10-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 5000 lb

ethyl acetate (141-78-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 5000 lb **CERCLA RQ**

hexane (110-54-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 5000 lb

International regulations

CANADA

No additional information available **EU-Regulations** No additional information available

National regulations

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

methyl isobutyl ketone (108-10-1)

Listed on IARC (International Agency for Research on Cancer)

US State regulations

methanol (67-56-1)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
-		Female	Male	
No	Yes	No	No	
methyl isobutyl ketone (108-10-1)				

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Yes	No	No	No		
ethanol (64-17-5)					
U.S New Jersey - Rig	ght to Know Hazardous S	Substance List			
methanol (67-56-1)					
U.S Massachusetts -	Right To Know List				
U.S New Jersey - Rig	U.S New Jersey - Right to Know Hazardous Substance List				
methyl isobutyl keton	e (108-10-1)				
U.S Massachusetts -	Right To Know List				
U.S New Jersey - Rig	ght to Know Hazardous S	Substance List			
U.S Pennsylvania - RTK (Right to Know) List					
ethyl acetate (141-78-0	6)				
U.S Massachusetts - Right to Know List					
U.S New Jersey - Right to Know Hazardous Substance List					
U.S Pennsylvania - RTK (Right to Know) List					
hexane (110-54-3)					

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 - OTHER INFORMATION

Abbreviations and acronyms : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. European Agreement concerning the International Carriage of Dangerous Goods by Road. Acute Toxicity Estimate. Bioconcentration factor. Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Derived Minimal Effect level. Derived-No Effect Level. Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Median effective concentration. International Agency for Research on Cancer. International Air Transport Association. International Maritime Dangerous Goods. Median lethal concentration. Median lethal dose. Lowest Observed Adverse Effect Level. No Observed Adverse Effect Concentration. No-Observed Adverse Effect Level. No Observed Effect Concentration. Organisation for Economic Co-operation and Development. Persistent Bioaccumulative Toxic, Predicted No-Effect Concentration, Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. Regulations concerning the International Carriage of Dangerous Goods by Rai. Safety Data Sheet. Sewage treatment plant. Median Tolerance Limit. Very Persistent and Very Bioaccumulative. Other information : None. Full text of H-phrases:

----- H225 Highly flammable liquid and vapor

----- H304 May be fatal if swallowed and enters airways

----- H315 Causes skin irritation

----- H332 Harmful if inhaled

----- H335 May cause respiratory irritation

----- H336 May cause drowsiness or dizziness

----- H350 May cause cancer

----- H351 Suspected of causing cancer

----- H373 May cause damage to organs through prolonged or repeated exposure

----- H411 Toxic to aquatic life with long lasting effects

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. NFPA fire hazard: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability: 3 Serious Hazard - Materials capable of ignition under almost all normal

temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection: D,n

D - Face shield and eye protection, Gloves, Synthetic apron n - Splash goggles **DISCLAIMER OF LIABILITY**



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