

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/13/2015 Revision date: 06/13/2017 Supersedes: 02/13/2015

Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixtures

Product name : Ethanol-Benzene Mixture, 1:2

Product code : LC14100

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

1.3. Supplier

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids H225 Highly flammable liquid and vapor

Category 2
Acute toxicity (oral) H302 Harmful if swallowed
Category 4
Skin corrosion/irritation H315 Causes skin irritation

Category 2
Serious eye damage/eye H319 Causes serious eye irritation

irritation Category 2A

Germ cell mutagenicity H340 May cause genetic defects

Category 1B
Carcinogenicity Category H350 May cause cancer

1A
Reproductive toxicity H361 Suspected of damaging fertility or the unborn child

Category 2
Specific target organ
H370
Causes damage to organs (central nervous system, optic nerve)

toxicity (single exposure)
Category 1

Specific target organ H372 Causes damage to organs (liver, kidneys) through prolonged or repeated exposure

toxicity (repeated exposure) Category 1

Hazardous to the aquatic H401 Toxic to aquatic life

environment - Acute Hazard Category 2

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)







GHS02 GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed H315 - Causes skin irritation

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Precautionary statements (GHS-US)

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H319 - Causes serious eye irritation

H340 - May cause genetic defects

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

H370 - Causes damage to organs (central nervous system, optic nerve)

H372 - Causes damage to organs (liver, kidneys) through prolonged or repeated exposure

H401 - Toxic to aquatic life

: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating, lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe mist, vapors, spray

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P307+P311 - If exposed: Call a poison center/doctor

P308+P313 - IF exposed or concerned: Get medical advice/attention P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P332+P313 - If skin irritation occurs: Get medical advice/attention

P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), extinguishing

powder to extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification

: None under normal conditions

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Benzene	(CAS-No.) 71-43-2	66.67	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Ethanol	(CAS-No.) 64-17-5	30	Flam. Liq. 2, H225 Carc. 1A, H350 Repr. 2, H361
Isopropyl Alcohol (2-Propanol)	(CAS-No.) 67-63-0	1.665	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H335
Methanol	(CAS-No.) 67-56-1	1.665	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

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Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : May cause cancer by inhalation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Special protective equipment and precautions for fire-fighters

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

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Protective clothing. Gloves. Face-shield. Combined gas/dust mask with

filter type A/P3.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing mist, spray.

Emergency procedures : Ventilate area. If a major spill occurs, all personnel should be immediately evacuated and the

area ventilated. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. 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.

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Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

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. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Eliminate all ignition sources if safe to do so. Do not breathe mist, vapors, spray.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/...

Storage conditions

Keep only in the original container in a cool, well ventilated place away from : Heat sources, Ignition sources, incompatible materials. Keep in fireproof place. Keep container tightly closed.

Incompatible products

Strong oxidizers.

Incompatible materials

: Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

Control parameters

Ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
IDLH	US IDLH (ppm)	3300 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
Isopropyl Alcohol	(2-Propanol) (67-63-0)	·
ACGIH	ACGIH TWA (ppm)	200 ppm (2-propanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	400 ppm (2-propanol; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
IDLH	US IDLH (ppm)	2000 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	980 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	1225 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
Methanol (67-56-1)		
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
IDLH	US IDLH (ppm)	6000 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	250 mg/m ³

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Methanol (67-56-1)		
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	325 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm
NIOSH	Remark (NIOSH)	Skin
Benzene (71-43-2)		
ACGIH	ACGIH TWA (mg/m³)	1.6 mg/m ³
ACGIH	ACGIH TWA (ppm)	0.5 ppm
ACGIH	ACGIH STEL (mg/m³)	8 mg/m³
ACGIH	ACGIH STEL (ppm)	2.5 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	3 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	OSHA PEL (STEL) (ppm)	5 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	15 mg/m³
IDLH	US IDLH (ppm)	500 ppm
NIOSH	NIOSH REL (TWA) (ppm)	0.1 ppm
NIOSH	NIOSH REL (STEL) (ppm)	1 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.





Materials for protective clothing:

GIVE GOOD RESISTANCE: PVA. GIVE POOR RESISTANCE: neoprene. PVC. nitrile rubber. natural rubber

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Color : Colorless Odor : characteristic Odor threshold : No data available : No data available рΗ : No data available Melting point Freezing point : No data available Boiling point : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor.

Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available

Solubility : Poorly soluble in water. Soluble in alcohols.

Log Pow : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact Acute toxicity : Oral: Harmful if swallowed.

Ethanol-Benzene Mixture, 1:2	
ATE US (oral)	1862.582781457 mg/kg body weight
Ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg (Rat; Experimental value,Rat; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740 mg/kg body weight

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LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
C50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE US (oral)	5045 mg/kg body weight
ATE US (dermal)	12870 mg/kg body weight
ATE US (vapors)	73 mg/l/4h
ATE US (dust, mist)	73 mg/l/4h
Methanol (67-56-1)	
D50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight c evidence)
D50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
_C50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
C50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
Benzene (71-43-2)	
D50 oral rat	1800 mg/kg
D50 dermal rabbit	> 9400 µl/kg
_C50 inhalation rat (mg/l)	13050 - 14380 mg/l/4h
ATE US (oral)	1800 mg/kg body weight
ATE US (vapors)	13050 mg/l/4h
ATE US (dust, mist)	13050 mg/l/4h
in corrosion/irritation	: Causes skin irritation.
erious eye damage/irritation	: Causes serious eye irritation.
espiratory or skin sensitization	: Not classified
erm cell mutagenicity	: May cause genetic defects.
arcinogenicity	: May cause cancer.
Ethanol (64-17-5)	
ARC group	1 - Carcinogenic to humans
sopropyl Alcohol (2-Propanol) (67-63-0)	
ARC group	3 - Not classifiable
Benzene (71-43-2) ARC group	1. Carainagania ta humana
National Toxicology Program (NTP) Status	1 - Carcinogenic to humans 2 - Known Human Carcinogens
eproductive toxicity	: Suspected of damaging fertility or the unborn child.
pecific target organ toxicity – single exposure	: Causes damage to organs (central nervous system, optic nerve).
pecific target organ toxicity – repeated posure	: Causes damage to organs (liver, kidneys) through prolonged or repeated exposure.
spiration hazard	: Not classified
otential Adverse human health effects and mptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
mptoms/effects after inhalation	: May cause cancer by inhalation.
mptoms/effects after skin contact	: Causes skin irritation.
mptoms/effects after eye contact	: Causes serious eye irritation.
mptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
mptome/oncote after ingestion	

12.1	T	oxi	Ci	ty

Ecology - water : Toxic to aquatic life.

Ethanol-Benzene Mixture, 1:2	
LC50 fish 1	8.8 mg/l

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Ethanol (64-17-5)		
LC50 fish 1	14200 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)	
Isopropyl Alcohol (2-Propanol) (67-63	-0)	
LC50 fish 2	9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)	
EC50 Daphnia 2	13299 mg/l (EC50; Other; 48 h; Daphnia magna)	
Threshold limit algae 1	> 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus)	
Methanol (67-56-1)		
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)	
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)	
Benzene (71-43-2)		
LC50 fish 1	5.3 mg/l 96 hr., Oncorhynchus mykiss, flow-through	
EC50 Daphnia 1	8.76 - 15.6 mg/l 48 hr., Daphnia magna	
EC50 Daphnia 2	10 mg/l 48 hr., Daphnia magna	
EC50 other aquatic organisms 2	29 mg/l 72 hr., Pseudokirchneriella subcapitata	

12.2. Persistence and degradability

Ethanol-Benzene Mixture, 1:2	
Persistence and degradability	Not established.
Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O₂/g substance
ThOD	2.1 g O₂/g substance
BOD (% of ThOD)	0.43
1 14 1 1 (0 D 1) (07 00 0)	

Isopropyl Alcohol (2-Propanol) (67-63-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No test data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O₂/g substance
Chemical oxygen demand (COD)	2.23 g O₂/g substance
ThOD	2.4 g O₂/g substance

Methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance
Chemical oxygen demand (COD)	1.42 g O₂/g substance
ThOD	1.5 g O₂/g substance
BOD (% of ThOD)	0.8 (Literature study)

12.3. Bioaccumulative potential

Ethanol-Benzene Mixture, 1:2		
Bioaccumulative potential	Not established.	
Ethanol (64-17-5)		
BCF fish 1	1 (BCF; Other; 72 h; Cyprinus carpio; Static system; Fresh water; Read-across)	
Log Pow	-0.31 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
Log Pow	0.05 (Weight of evidence approach; Other; 25 ℃)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

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Methanol (67-56-1)	
BCF fish 1 < 10 (BCF; 72 h; Leuciscus idus)	
Log Pow -0.77 (Experimental value; Other)	
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).	
Benzene (71-43-2)	
Log Pow	2.1

12.4. Mobility in soil

Ethanol (64-17-5)		
Surface tension 0.022 N/m (20 ℃)		
Log Koc Koc,PCKOCWIN v1.66; 1; Read-across		
Isopropyl Alcohol (2-Propanol) (67-63-0)		
Surface tension 0.021 N/m (25 °C)		
Methanol (67-56-1)		
Surface tension 0.023 N/m (20 °C)		
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value	

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1993 Flammable liquids, n.o.s., 3, II

UN-No.(DOT) : UN1993

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Symbols : G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)

: 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 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) : 150 DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

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.

Other information : No supplementary information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Ethanol-Benzene Mixture, 1:2	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isopropyl Alcohol (2-Propanol)	CAS-No. 67-63-0	1.665%
Methanol	CAS-No. 67-56-1	1.665%
Benzene	CAS-No. 71-43-2	66.67%

Methanol (67-56-1)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard	
Benzene (71-43-2)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

15.2. International regulations

CANADA

No additional information available

N	Methanol (67-56-1)
L	isted on the Canadian DSL (Domestic Substances List)

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Benzene (71-43-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Benzene (71-43-2)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Methanol (67-56-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	
Benzene (71-43-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	No	Yes	24

SECTION 16: Other information

Revision date : 06/13/2017 Other information : None.

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16:

CION 16:		
Highly flammable liquid and vapor		
Toxic if swallowed		
Harmful if swallowed		
May be fatal if swallowed and enters airways		
Toxic in contact with skin		
Causes skin irritation		
Causes serious eye irritation		
Toxic if inhaled		
May cause respiratory irritation		
May cause genetic defects		
May cause cancer		
Suspected of damaging fertility or the unborn child		
Causes damage to organs		
Causes damage to organs through prolonged or repeated exposure		
Toxic to aquatic life		

NFPA health hazard

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

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NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.

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Hazard Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

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

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H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

SDS US LabChem

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