

### Safety Data Sheet

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

Date of issue: 07/19/2019 Revision date: 07/19/2019 Version: 1.0

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Chlorinated EVA Mix Product code AL0-130822; AL0-130823

#### 1.2. Recommended use and restrictions on us

No additional information available

Phenova

6390 Joyce Dr. Suite 100

Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

### **GHS-US** classification

Flammable liquids H225 Highly flammable liquid and vapour

Category 2

Acute toxicity (oral) H301 Toxic if swallowed

Category 3

Acute toxicity (dermal) H311 Toxic in contact with skin

Category 3

Carcinogenicity Category H350 May cause cancer

Specific target organ H370 Causes damage to organs

toxicity (single exposure)

Category 1

H420 Harms public health and the environment by destroying ozone in the upper atmosphere Hazardous to the ozone

layer Category 1

Full text of H statements : see section 16

### GHS Label elements, including precautionary statements

### GHS-US labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

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

H301+H311 - Toxic if swallowed or in contact with skin

H350 - May cause cancer

H370 - Causes damage to organs

H420 - Harms public health and the environment by destroying ozone in the upper atmosphere

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 and other ignition sources. No

P233 - Keep container tightly closed.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - If swallowed: Immediately call a poison center or doctor

P302+P352 - If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

07/19/2019 EN (English US) Page 1

### Safety Data Sheet

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

skin with water/shower

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

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell

P321 - Specific treatment (see supplemental first aid instruction on this label) P322 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation P502 - Refer to manufacturer/supplier for information on recovery/recycling.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 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	Conc.
methanol (Component)	(CAS-No.) 67-56-1	98.29
tetrachloroethylene (Component)	(CAS-No.) 127-18-4	7.6
trichloroethylene (Component)	(CAS-No.) 79-01-6	0.95

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 : 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

persists.

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

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

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

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

### 5.2. Specific hazards arising from the chemical

No additional information available

### 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.

07/19/2019 EN (English US) 2/11

### Safety Data Sheet

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

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### 7.1. 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.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated

clothing. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated

place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Chlorinated EVA Mix		
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

tetrachloroethylene (12	27-18-4)	
ACGIH	Local name	Tetrachloroethylene
ACGIH	ACGIH TWA (ppm)	25 ppm (Tetrachloroethylene (Perchloroethylene); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	100 ppm (Tetrachloroethylene (Perchloroethylene); USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA

trichloroethylene (79-01-6)		
ACGIH	Local name	Trichloroethylene

07/19/2019 EN (English US) 3/11

### Safety Data Sheet

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

trichloroethylene (79-	-01-6)	
ACGIH	ACGIH TWA (ppm)	10 ppm (Trichloroethylene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	25 ppm (Trichloroethylene; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	CNS impair; cognitive decrements
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	300 ppm 5 mins. in any 2 hrs.
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA
methanol (67-56-1)		
ACGIH	Local name	Methanol
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)
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
OSHA	7 (11 7	

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

### Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

#### Eye protection

Chemical goggles or safety glasses. Safety glasses

#### Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

: Liquid

### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):



Physical state





### 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

07/19/2019 EN (English US) 4/11

### Safety Data Sheet

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

-	Col	lor	ess
	-	011	

: characteristic: No data available

No data available

Odor threshold : No data available pH : No data available Melting point : No data available Freezing point : No data available : 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) : Non flammable.

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : No data available
Solubility : No data available
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

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

Viscosity, kinematic

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Chlorinated EVA Mix	
ATE US (oral)	101.74 mg/kg body weight
ATE US (dermal)	305.219 mg/kg body weight
tetrachloroethylene (127-18-4)	
LD50 oral rat	> 2000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 3835 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Experimental value; 3005 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit; Literature study; >10000 mg/kg bodyweight; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	27.58 mg/l/4h (Rat; Literature study)

07/19/2019 EN (English US) 5/11

## Safety Data Sheet

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

according to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations	
tetrachloroethylene (127-18-4)		
LC50 inhalation rat (ppm)	3786 ppm/4h (Rat; Experimental value)	
ATE US (gases)	3786 ppmV/4h	
ATE US (vapors)	27.58 mg/l/4h	
ATE US (dust, mist)	27.58 mg/l/4h	
trichloroethylene (79-01-6)		
LD50 oral rat	4920 mg/kg (Rat)	
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	66 mg/l/4h (Rat)	
LC50 inhalation rat (ppm)	12000 ppm/4h (Rat)	
ATE US (oral)	4920 mg/kg body weight	
ATE US (gases)	12000 ppmV/4h	
ATE US (vapors)	66 mg/l/4h	
ATE US (dust, mist)	66 mg/l/4h	
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 (oral)	100 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
ATE US (gases)	700 ppmV/4h	
ATE US (vapors)	3 mg/l/4h	
ATE US (dust, mist)	0.5 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: May cause cancer.	
tetrachloroethylene (127-18-4)		
IARC group	2A - Probably carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
trichloroethylene (79-01-6)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
Reproductive toxicity	: Not classified	
περιουμοτίνε τολισίτη	Based on available data, the classification criteria are not met	
Specific target organ toxicity – single exposure	Causes damage to organs.	
Specific target organ toxicity – single exposure	. Causes damage to organs.	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.	
SECTION 12: Ecological information		

### SECTION 12: Ecological information

#### 12.1. Toxicity

tetrachloroethylene (127-18-4)		
EC50 Daphnia 1	8.5 mg/l (EC50; ASTM; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
07/19/2019	FN (English US)	6/11

07/19/2019 EN (English US) 6/11

## Safety Data Sheet

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

Intershold implications   3.64 mg/l (ECSD, Other, 72 h. Chlamydomonas angulosa, Fresh water)   Intershold implications   1.620 mg/l (ECSD, Other, 72 h. Chlamydomonas angulosa, Fresh water)   Intershold implications   1.620 mg/l (ECSD, 98 h. Pimephales promelas)   ECSD Daphnia   2.08 mg/l (ECSD, 98 h. Pimephales promelas)   ECSD Daphnia   2.08 mg/l (ECSD, 98 h. Pimephales promelas)   ECSD Daphnia   2.000 mg/l (ECSD, 98 h. Pimephales promelas)   ECSD Daphnia   3.000 mg/l (ECSD, 98 h. Pimephales promelas)   ECSD Daphnia   3.000 mg/l (ECSD, 98 h. Salmo galidneri)   ECSD Daphnia   3.000 mg/l (ECSD, 98 h. Salmo galidneri)   ECSD Daphnia   3.000 mg/l (ECSD, 98 h. Salmo galidneri)   ECSD Daphnia   3.000 mg/l (ECSD, 98 h. Salmo galidneri)   Experimental value)   Experimental value)   Experimental value	cording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
### ### ### ### ### ### ### ### ### ##	tetrachloroethylene (127-18-4)	
LCSG fish 1	Threshold limit algae 2	3.64 mg/l (EC50; Other; 72 h; Chlamydomonas angulosa; Fresh water)
LCSG fish 1	trichloroethylene (79-01-6)	
methanol (67-56-1) LGS0 fish 1 15400 mg/l (LCS0: EPA 860/3 - 75/000; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value) LGS0 fish 2 10000 mg/l (CGS0; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) LCS0 fish 2 1022 prastence and degradability Chlorinated EVA Mix Persistence and degradability Not readily biodegradable in water. Low potential for adsorption in soil. Biochemical oxygen demand (BOD) 0.09 g 0-/g substance ThOD 0.39 g 0-/g substance BOD (% of ThOD) 0.15 trichloroethylene (72-91-5) Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  methanol (67-56-1) Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  methanol (67-56-1) Persistence and degradability Not readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Biochemical oxygen demand (BOD) 0.6 - 1.12 g O-/g substance  Chemical oxygen demand (COD) 1.42 g O-/g substance  DOD (% of ThOD) 1.5 g O-/g substance  Chemical oxygen demand (COD) 1.42 g O-/g substance  DOD (% of ThOD) 1.5 g O-/g substance  Chemical oxygen demand (COD) 1.42 g O-/g substance  DOD (% of ThOD) 1.5 g O-/g substance  Chemical oxygen demand (COD) 1.7 g O-/g substance  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  Discontinual try potential  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  Chorinated EVA Mix  DOD (% of ThOD) 1.7 g O-/g substance  DOD (% of ThOD) 1.7 g O-		40.7 mg/l (LC50; 96 h; Pimephales promelas)
15400 mg/l (LCS0, EPA 860/3 - 75/009; 98 h; Lepomis macrochirus; Flow-through system; Fresh water, Experimental value;	EC50 Daphnia 2	20.8 mg/l (EC50; 48 h)
15400 mg/l (LCS0, EPA 860/3 - 75/009; 98 h; Lepomis macrochirus; Flow-through system; Fresh water, Experimental value;	methanol (67-56-1)	
Experimental value    10800 mg/ (LC50; 96 h; Salmo gairdneri)   12.2.   Persistence and degradability   Not established.   Persistence and degradability   Not readily biodegradable in water. Low potential for adsorption in soil.   Sinchemical oxygen demand (BOD)   0.06; 9 Os/g substance   0.39 g Os/g Substance   0.		
Chlorinated EVA Mix   Persistence and degradability   Not established.	EC50 Daphnia 1	
Chlorinated EVA Mix         Peraistence and degradability         Not established.           Extrachlorosthylone (127-18-4)         Peraistence and degradability         Not readily biodegradable in water. Low potential for adsorption in soil.           Biochemical oxygen demand (BOD)         0.06 g Ox/g substance           ThOD         0.38 g Ox/g substance           BOD (% of ThOD)         0.15           trichloroethylene (79-01-6)           Persistence and degradability         Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.           methanol (67-56-1)           Persistence and degradability         Readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.           methanol (67-56-1)           Persistence and degradability         Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.           Biodefradability in the soil under anaerobic conditions.           Methanol (67-56-1)           Persistence and degradability           Readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil.	LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)
Persistence and degradability Not established.  tetrachioroethylene (127-18-4)  Persistence and degradability Not readily biodegradable in water. Low potential for adsorption in soil.  Do 0.06 g O.Jg substance  DO 0.06 g O.Jg substance  DO 0.07 fbDD)  DO 0.05 fbDD)  Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  Methanol (67-56-1)  Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  Methanol (67-56-1)  Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  Biochemical oxygen demand (BOD) 0.5 - 1.12 g O./g substance  Chemical oxygen demand (BOD) 1.42 g O.Jg substance  ThOD 1.5 g O.Jg substance  DO (% of ThOD) 0.8 (Literature study)  12.3 Bioaccumulative potential Not established.  Eterachioroethylene (127-18-4)  BCF fish 2 2.58 - 77.1 (BCF; 8 weeks)  Bioaccumulative potential Low potential Low potential (BCF < 500).  **Trichioroethylene (79-01-6)  BCF fish 1 17 (BCF; 38 h)  BCF fish 1 17 (BCF; 38 h)  BCF fish 2 90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF fish 1 < 10 (BCF; 72 h; Leuciscus idus)  DO (BCF; 72 h; L	12.2. Persistence and degradability	
Persistence and degradability Not established.  tetrachioroethylene (127-18-4)  Persistence and degradability Not readily biodegradable in water. Low potential for adsorption in soil.  Do 0.06 g O.Jg substance  DO 0.06 g O.Jg substance  DO 0.07 fbDD)  DO 0.05 fbDD)  Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  Methanol (67-56-1)  Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  Methanol (67-56-1)  Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  Biochemical oxygen demand (BOD) 0.5 - 1.12 g O./g substance  Chemical oxygen demand (BOD) 1.42 g O.Jg substance  ThOD 1.5 g O.Jg substance  DO (% of ThOD) 0.8 (Literature study)  12.3 Bioaccumulative potential Not established.  Eterachioroethylene (127-18-4)  BCF fish 2 2.58 - 77.1 (BCF; 8 weeks)  Bioaccumulative potential Low potential Low potential (BCF < 500).  **Trichioroethylene (79-01-6)  BCF fish 1 17 (BCF; 38 h)  BCF fish 1 17 (BCF; 38 h)  BCF fish 2 90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  BCF fish 1 < 10 (BCF; 72 h; Leuciscus idus)  DO (BCF; 72 h; L	Chlorinated EVA Mix	
Persistence and degradability Biochemical oxygen demand (BOD) 0.6 g Ox/g substance 1.00 (0.5 g Ox/g substance) 1.01 (1.00 (1.0		Not established.
Persistence and degradability Biochemical oxygen demand (BOD) 0.6 g Ox/g substance 1.00 (0.5 g Ox/g substance) 1.01 (1.00 (1.0	tetrachloroethylene (127-18-4)	
Biochemical oxygen demand (BOD)  0.06 g O <sub>a</sub> /g substance  1ThOD  0.39 g O <sub>a</sub> /g substance  BOD (% of ThOD)  0.15  1richloroethylene (79-01-6) Persistence and degradability  Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  ***Persistence and degradability**  Persistence and degradability  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  Biochemical oxygen demand (BOD)  0.6 - 1.12 g O <sub>a</sub> /g substance  Chemical oxygen demand (COD)  1.42 g O <sub>a</sub> /g substance  1.5 g O <sub>a</sub> /g substance  BOD (% of ThOD)  1.5 g O <sub>a</sub> /g substance  1.5 g O <sub>a</sub> /g substance  Solo (% of ThOD)  1.5 g O <sub>a</sub> /g substance  ***Persistence and degradability mobile in soil.  Bioaccumulative potential  ***Persistence and degradability mobile in soil.  ***Persistence and degradability mobile in water. Biodegradable in the soil. Highly mobile in soil.  ***Persistence and degradability mobile in soil.  ***Persistence and degradability mobile in soil.  ***Persistence and degradability mobile in water. Biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  ***Persistence and degradability mobile in soil.  ***Persistence and degradability mobile in water. Biodegradable in water. Biodegradable in the soil. Biodegradable in water. Biodegradable in water. Biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  ***Persistence and degradability mobile in soil.  ***Persistence and degradability mobile in water. Biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  ***Persistence and degradability mobile in soil.  ***Persistence and degradabile in water. Biodegradable in the soil. Highly mobile in soil.  ***Persistence and degradability and soil.  **Persistence and		Not readily biodegradable in water, Low potential for adsorption in soil.
ThOD 0.39 g O/g substance  BOD (% of ThOD) 0.15  Trichtoroethylene (79-01-5) Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  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 O/g substance Chemical oxygen demand (COD) 1.42 g O/g substance  ThOD 1.5 g O/g substance  BOD (% of ThOD) 0.8 (Literature study)  12.3. Bloaccumulative potential  Chiorinated EVA Mix Biocaccumulative potential Not established.  tetrachloroethylene (127-18-4) BCF fish 2 25.8 - 77.1 (BCF; 8 weeks) Log Pow 3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C) Biocaccumulative potential Low potential for biocaccumulation (BCF < 500).  trichloroethylene (79-01-5) BCF fish 1 17 (BCF; 336 h) BCF fish 2 90 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 1 3440 (BCF; 120 h) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF other and (75-56-1) BCF fish 1   < 10 (BCF; 72 h; Leuciscus idus) BCF other and (75-56-1) BCF fish 1   < 10 (BCF; 72 h; Leuciscus idus) BCF other and (75-56-1) BCF fish 1   < 10 (BCF; 72 h; Leuciscus idus) BCF other and (75-56-1) BCF other analogue (75-66-1) BCF other anaero (75-	ů ,	·
BOD (% of ThOD)  0.15  Persistence and degradability  Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  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  DOD (% of ThOD)  0.8 (Literature study)  12.3 Bioaccumulative potential  Chlorinated EVA Mix Bioaccumulative potential  Not established.  tetrachloroethylene (127-18-4)  BCF fish 2  2.58 - 77.1 (BCF; 8 weeks)  Log Pow  3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  trichloroethylene (79-01-6)  BCF fish 1  17 (BCF; 336 h)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  methanol (67-56-1)  BCF ofther aquatic organisms 2  4270 (BCF; 120 h)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  methanol (67-56-1)  BCF fish 1  \$ 10 (BCF; 72 h; Leuciscus idus)  -0.77 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  methanol (67-56-1)  BCF fish 1  \$ 10 (BCF; 72 h; Leuciscus idus)  -0.77 (Experimental value; Other)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).	ThOD	
trichloroethylene (79-01-6) Persistence and degradability Readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  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 O <sub>2</sub> /g substance Chemical oxygen demand (COD) 1.42 g O <sub>2</sub> /g substance Chemical oxygen demand (COD) 1.5 g O <sub>2</sub> /g substance BOD (% of ThOD) 0.8 (Literature study)  12.3. Bioaccumulative potential Not established.  Chlorinated EVA Mix Bioaccumulative potential Not established.  15 g O <sub>2</sub> /g substance  Chlorinated EVA Mix Bioaccumulative potential Not established.  15 g O <sub>2</sub> /g substance  Chlorinated EVA Mix Bioaccumulative potential Not established.  15 g O <sub>2</sub> /g substance  Chlorinated EVA Mix Bioaccumulative potential Not established.  16 tetrachloroethylene (127-18-4) Bioaccumulative potential Low potential value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C) Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).  17 (BCF; 336 h) BCF fish 1 17 (BCF; 336 h) BCF fish 2 90 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 1 3440 (BCF; 120 h) BCF fish 1 4270 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF fish 1 4270 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF fish 1 4270 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF fish 1 4270 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF fish 1 4270 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF fish 1 4270 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCF other a	BOD (% of ThOD)	
Persistence and degradability  Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.  Persistence and degradability  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  Biochemical oxygen demand (BOD)  0.6 - 1.12 g O <sub>x</sub> /g substance  Chemical oxygen demand (COD)  1.42 g O <sub>x</sub> /g substance  ThOD  1.5 g O <sub>x</sub> /g substance  BOD (% of ThOD)  0.8 (Literature study)  Persistence and degradability  Bioaccumulative potential  Chorinated EVA Mix  Bioaccumulative potential  Not established.  Persistence and degradability  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  BOD (% of ThOD)  1.5 g O <sub>x</sub> /g substance  BOD (% of ThOD)  0.8 (Literature study)  Persistence and degradability  BOD (% of ThOD)  1.5 g O <sub>x</sub> /g substance  Chemical oxygen demand (COD)  1.42 g O <sub>x</sub> /g substance  BOD (% of ThOD)  0.8 (Literature study)  Persistence and degradability  Bioaccumulative potential  Not established.  Persistence and degradability  Bioaccumulative potential  Low potential for bioaccumulative potential value; Equivalent or similar to OECD 107; 23 °C)  Bioaccumulative potential  17 (BCF; 336 h)  BCF fish 2  90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  methanol (67-56-1)  BCF fish 1 <a href="#"></a>		
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 O <sub>2</sub> /g substance Chemical oxygen demand (COD) 1.42 g O <sub>2</sub> /g substance  ThOD 1.5 g O <sub>2</sub> /g substance BOD (% of ThOD) 0.8 (Literature study)  12.3. Bioaccumulative potential  Chlorinated EVA Mix Bioaccumulative potential Not established.  Etrachloroethylene (127-18-4)  BCF fish 2 25.8 - 77.1 (BCF; 8 weeks) 1.0 g Pow 3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107, 23 °C) Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).  Trichloroethylene (79-01-6)  BCF fish 1 17 (BCF; 336 h) BCF fish 2 90 (BCF; 72 h; Leuciscus idus) BCF other aquatic organisms 1 3440 (BCF; 120 h) BCF other aquatic organisms 2 4270 (BCF; 120 h) BCP ove 2.29 - 2.42 (Experimental value) Bioaccumulative potential BCF fish 1	• , ,	Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under
Persistence and degradability  Biochemical oxygen demand (BOD)  0.6 - 1.12 g Os/g substance  Chemical oxygen demand (COD)  1.42 g Os/g substance  ThOD  1.5 g Os/g substance  BOD (% of ThOD)  0.8 (Literature study)  12.3. Bioaccumulative potential  Chlorinated EVA Mix  Bioaccumulative potential  Not established.  1.5 g Os/g substance  Chlorinated EVA Mix  Bioaccumulative potential  Not established.  1.5 g Os/g substance  Sioaccumulative potential  Not established.  1.5 g Os/g substance  Not established.  1.5 g Os/g substance  1.6 g Os/g substance  1.7 g Os/g substanc	reisistence and degradability	
Biochemical oxygen demand (BOD)   0.6 - 1.12 g O₂/g substance	methanol (67-56-1)	
1.42 g Oz/g substance	Ū ,	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
1.5 g O <sub>2</sub> /g substance	Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance
1.5 g Srg substance   1.8 g Srg substance	Chemical oxygen demand (COD)	1.42 g O₂/g substance
Chlorinated EVA Mix Bioaccumulative potential  Not established.  tetrachloroethylene (127-18-4)  BCF fish 2  Log Pow  3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  trichloroethylene (79-01-6)  BCF fish 1  17 (BCF; 336 h)  BCF fish 2  90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  BCF other aquatic organisms 2  4270 (BCF; 120 h)  BCF other aquatic organisms 2  Low potential for bioaccumulation (BCF < 500).  methanol (67-56-1)  BCF fish 1  < 10 (BCF; 72 h; Leuciscus idus)  BCF fish 1  < 10 (BCF; 72 h; Leuciscus idus)  Low potential for bioaccumulation (BCF < 500).  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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)	ThOD	1.5 g O₂/g substance
Chlorinated EVA Mix	BOD (% of ThOD)	0.8 (Literature study)
Chlorinated EVA Mix	12.3. Bioaccumulative potential	
Bioaccumulative potential Not established.  tetrachloroethylene (127-18-4)  BCF fish 2 25.8 - 77.1 (BCF; 8 weeks)  Log Pow 3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C)  Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).  trichloroethylene (79-01-6)  BCF fish 1 17 (BCF; 336 h)  BCF fish 2 90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1 3440 (BCF; 120 h)  BCF other aquatic organisms 2 4270 (BCF; 120 h)  Log Pow 2.29 - 2.42 (Experimental value)  Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).  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).	·	
tetrachloroethylene (127-18-4)  BCF fish 2  Log Pow  3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  trichloroethylene (79-01-6)  BCF fish 1  17 (BCF; 336 h)  BCF fish 2  90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  BCF other aquatic organisms 2  4270 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  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).		Not established
BCF fish 2   25.8 - 77.1 (BCF; 8 weeks)	·	not obtablished.
Log Pow  3.4 (Experimental value; 2.53; Experimental value; Equivalent or similar to OECD 107; 23 °C)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).   trichloroethylene (79-01-6)  BCF fish 1  17 (BCF; 336 h)  BCF fish 2  90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  BCF other aquatic organisms 2  4270 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  methanol (67-56-1)  BCF fish 1  < 10 (BCF; 72 h; Leuciscus idus)  -0.77 (Experimental value; Other)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)		25.8 - 77.1 (BCE: 8 weeks)
Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  trichloroethylene (79-01-6)  BCF fish 1  BCF fish 2  90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  BCF other aquatic organisms 2  4270 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)		
trichloroethylene (79-01-6)  BCF fish 1	ŭ	, , ,
BCF fish 1	·	
BCF fish 2  90 (BCF; 72 h; Leuciscus idus)  BCF other aquatic organisms 1  3440 (BCF; 120 h)  BCF other aquatic organisms 2  4270 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)		17 (BCF: 336 h)
BCF other aquatic organisms 1  BCF other aquatic organisms 2  4270 (BCF; 120 h)  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)		
BCF other aquatic organisms 2  Log Pow  2.29 - 2.42 (Experimental value)  Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)		
Log Pow 2.29 - 2.42 (Experimental value)  Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).  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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension 0.0313 N/m (20 °C)		
methanol (67-56-1)  BCF fish 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).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension 0.0313 N/m (20 °C)	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1 < 10 (BCF; 72 h; Leuciscus idus)  Log Pow -0.77 (Experimental value; Other)  Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension 0.0313 N/m (20 °C)	methanol (67-56-1)	
Bioaccumulative potential  Low potential for bioaccumulation (BCF < 500).  12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension  0.0313 N/m (20 °C)		< 10 (BCF; 72 h; Leuciscus idus)
12.4. Mobility in soil  tetrachloroethylene (127-18-4)  Surface tension 0.0313 N/m (20 °C)	Log Pow	-0.77 (Experimental value; Other)
tetrachloroethylene (127-18-4) Surface tension 0.0313 N/m (20 °C)	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Surface tension 0.0313 N/m (20 °C)	12.4. Mobility in soil	
	tetrachloroethylene (127-18-4)	
Log Koc Koc,141; Experimental value; log Koc; 2.15; Experimental value		, ,
	Log Koc	Koc,141; Experimental value; log Koc; 2.15; Experimental value

07/19/2019 EN (English US) 7/11

### Safety Data Sheet

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

trichloroethylene (79-01-6)	
Surface tension 0.03 N/m	
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

Chlorinated EVA Mix	
tetrachloroethylene (127-18-4)	
trichloroethylene (79-01-6)	
methanol (67-56-1)	

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II

UN-No.(DOT) : UN1992

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

methanol

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Subsidiary risk (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 3 - Flammable liquid 6.1 - Poison





DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243

DOT Symbols : G - Identifies PSN requiring a technical name

07/19/2019 EN (English US) 8/11

### Safety Data Sheet

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

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)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is

transported by sea.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

: 150

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

: 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.

**DOT Vessel Stowage Other** 

· 131

Emergency Response Guide (ERG) Number Other information

**DOT Vessel Stowage Location** 

: No supplementary information available.

: 40 - Stow "clear of living quarters"

#### **Transportation of Dangerous Goods**

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol), 3 (6.1), II

UN-No. (IMDG)

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Class (IMDG) : 3 - Flammable liquids

: II - substances presenting medium danger Packing group (IMDG)

Subsidiary risks (IMDG) : 6.1 - Toxic substances

### Air transport

Transport document description (IATA) : UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II

UN-No. (IATA) : 1992

Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s. Class (IATA) : 3 - Flammable Liquids Packing group (IATA) : II - Medium Danger Subsidiary risks (IATA) : 6.1 - Toxic substances

### **SECTION 15: Regulatory information**

15.1. US Federal regulations

tetrachloroethylene (127-18-4)		
Listed on the United States TSCA (T Subject to reporting requirements of		
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ	100 lb	

07/19/2019 EN (English US) 9/11

### Safety Data Sheet

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

trichloroethylene (79-01-6)		
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States		
Listed on EPA Hazardous Air Pollutant (HAPS)		
EPA TSCA Regulatory Flag	R - R - indicates a substance that is the subject of a TSCA section 6 risk management rule.	
CERCLA RQ	100 lb	
methanol (67-56-1)		
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States		
Listed on EPA Hazardous Air Pollutant (HAPS)		
ERCLA RQ 5000 lb		

### 15.2. International regulations

### CANADA

### tetrachloroethylene (127-18-4)

Listed on the Canadian DSL (Domestic Substances List)

### trichloroethylene (79-01-6)

Listed on the Canadian DSL (Domestic Substances List)

### methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

No additional information available

#### **National regulations**

### tetrachloroethylene (127-18-4)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on EPA Hazardous Air Pollutant (HAPS)

### trichloroethylene (79-01-6)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on EPA Hazardous Air Pollutant (HAPS)

#### methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

### 15.3. US State regulations

tetrachloroethylene (127-18-4)					
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)	Maximum allowable dose level (MADL)
Yes	No	No	No	14 μg/day	
trichloroethylene (79-01-6)					
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)	Maximum allowable dose level (MADL)
LIST					

07/19/2019 EN (English US) 10/11

### Safety Data Sheet

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

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)	Maximum allowable dose level (MADL)
No	Yes	No	No		47000 μg/day (inhalation); 23,000 μg/day (oral)

### **SECTION 16: Other information**

Revision date : 07/19/2019

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

#### Full text of H-phrases:

H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H350	May cause cancer
H370	Causes damage to organs
H420	Harms public health and the environment by destroying ozone in the upper atmosphere

#### Phenova US SDS REV

Copyright 2015 Phenova, Inc. License granted to make paper copies for internal use. The information contained in this Safety Data Sheet is based on our current knowledge. The information contained in this document should be used only as a guide for appropriate safety precautions and should not be considered to be all inclusive. Users should make their own investigation to determine the suitability of the information for their particular purposes. The document does not represent any guarantee of the properties of the product. Phenova, Inc. shall not be held liable for any damage resulting from the handling or use of this product. Visit the Terms and Conditions of Sale link at www.phenova.com for additional terms and conditions of sale.

07/19/2019 EN (English US) 11/11