



# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

Revision date: 09/14/2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : SUNOCO 40:1 2-Cycle Pre-Mix

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel

#### 1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC  
3100 Sanders Road  
Northbrook, IL 60062 - USA  
T (847) 559-2000  
[www.oldworldind.com](http://www.oldworldind.com)

#### 1.4. Emergency telephone number

Emergency number : 800 424 9300 (United States); 00 1 703 527 3887 (International)  
Chemtrec

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flammable liquids, Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (central nervous system, liver, kidneys, respiratory system, cardiovascular system) through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs (central nervous system, liver, kidneys, respiratory system, cardiovascular system) through prolonged or repeated exposure.

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 smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment.

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe fume, mist, spray, vapors  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective clothing, eye protection, face protection.  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

0% of the mixture consists of ingredient(s) of unknown toxicity.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
naphtha (petroleum), light alkylate	(CAS-No.) 64741-66-8	65 - 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
toluene	(CAS-No.) 108-88-3	14 - 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
isopentane	(CAS-No.) 78-78-4	4 - 15	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304
n-butane	(CAS-No.) 106-97-8	0.5 - 5	Flam. Gas 1, H220 Press. Gas (Liq.), H280
xylene, mixture of isomers	(CAS-No.) 1330-20-7	0.01 - 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315
distillates, hydrotreated light	(CAS-No.) 64742-47-8	0.01 - 0.1	Asp. Tox. 1, H304
hexane	(CAS-No.) 110-54-3	0.001 - 0.01	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical advice/attention.
- 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 for 15 minutes, lifting lower and upper lids. Obtain medical attention if pain, blinking or redness persists.

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

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

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.  
Symptoms/effects after inhalation : Dizziness. Headache. Central nervous system depression. Nausea. Vomiting.  
Symptoms/effects after ingestion : Aspiration hazard if swallowed. Nausea. Vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Do not administer medicines from the adrenalin-ephedrine group.

## SECTION 5: Firefighting measures

### 5.1. 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. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. VAPOR MAY CAUSE FLASH FIRE (OR EXPLOSION). Vapors form an explosive mixture in air between the upper and lower explosive limits which can be ignited by many sources. Vapors may cause fire/explosion if source of ignition is present. Proper grounding procedures to avoid static electricity should be followed.  
Reactivity : No data 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 the 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 : Do not breathe mist, vapors. Do not touch or walk through spilled material. Eliminate every possible source of ignition. Keep upwind.

#### 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. Refer to section 8.2.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 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. Use only non-sparking tools.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/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. Do not breathe mist, vapors. Avoid contact with skin, eyes and clothing. Prevent the build-up of electrostatic charge. Use only non-sparking tools. Use spark-/explosionproof appliances and lighting system.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, hot surfaces, open flames, sparks. Keep container closed when not in use. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty. Dispose of empty containers and wastes safely.

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

Incompatible materials : Keep away from strong acids, strong bases and oxidizing agents. Halogens. Halogenated compounds. Peroxides. Chlorine.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>naphtha (petroleum), light alkylate (64741-66-8)</b>		
Not applicable		
<b>toluene (108-88-3)</b>		
ACGIH	Local name	Toluene
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Visual impairment; female reproductive;
OSHA	Remark (OSHA)	(2) See Table Z-2.
<b>isopentane (78-78-4)</b>		
ACGIH	Local name	Pentane, all isomers (1989)
ACGIH	ACGIH TWA (ppm)	1000 ppm 1000 ppm
ACGIH	Regulatory reference	ACGIH 2018
<b>n-butane (106-97-8)</b>		
ACGIH	Local name	Butane, all isomers
ACGIH	ACGIH STEL (ppm)	1000 ppm
<b>xylene, mixture of isomers (1330-20-7)</b>		
ACGIH	Local name	Xylene
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	651 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	Upper Respiratory Tract & eye irritant; Central Nervous System impairment
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	655 mg/m <sup>3</sup>
OSHA	OSHA PEL (STEL) (ppm)	150 ppm
<b>hexane (110-54-3)</b>		
ACGIH	Local name	n-Hexane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Central Nervous System impairment; peripheral neuropathy; eye irritant; skin; Biological Exposure Indices
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
<b>distillates, hydrotreated light (64742-47-8)</b>		
ACGIH	ACGIH Ceiling (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (ppm)	500 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station. Use spark-/explosion proof appliances and lighting system.

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

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

#### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

#### Hand protection:

Wear protective gloves. Nitrile rubber. Neoprene. Polytetrafluoroethylene (PTFE)

#### Eye protection:

Chemical goggles or safety glasses

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.



#### 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
Color	: clear
Odor	: petroleum-like odor
Odor threshold	: < 1 ppm
Relative evaporation rate (butylacetate=1)	: No data available
Freezing point	: No data available
Boiling point	: 38 - 127 °C (100 - 260 °F) [ASTM D86]
Flash point	: -40 °C (-40 °F)
Auto-ignition temperature	: 280 °C (536 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 5 - 16 psia
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 0.76
Solubility	: Water: 0 - 15 %
Log Pow	: 2 - 7
Log Kow	: No data available
Viscosity, kinematic	: < 7 mm <sup>2</sup> /s @ 40 °C (104 °F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: Lower explosive limit (LEL): 1.5 vol % Upper explosive limit (UEL): 7.6 vol %

### 9.2. Other information

VOC content	: 100 %
-------------	---------

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid formation of vapors.

#### 10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents. Halogens. Halogenated compounds. Peroxides. Chlorine.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Asphyxiant.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>naphtha (petroleum), light alkylate (64741-66-8)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat, Literature study)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit, Literature study)
LC50 inhalation rat (mg/l)	> 5 mg/l (Rat, Literature study)

<b>toluene (108-88-3)</b>	
LD50 oral rat	5580 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Other, 24 h, Rabbit, Male, Experimental value)
LC50 inhalation rat (mg/l)	25.7 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value)

<b>isopentane (78-78-4)</b>	
LD50 oral rat	> 5000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male/female, Read-across)
LC50 inhalation rat (mg/l)	> 25.3 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Read-across)

<b>xylene, mixture of isomers (1330-20-7)</b>	
LD50 oral rat	3523 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value)
ATE US (oral)	3523 mg/kg bodyweight
ATE US (dermal)	1100 mg/kg bodyweight
ATE US (gases)	4500 ppmv/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust,mist)	1.5 mg/l/4h

<b>hexane (110-54-3)</b>	
LD50 oral rat	16000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value)
LD50 dermal rabbit	> 3350 mg/kg bodyweight (Equivalent or similar to OECD 402, 4 h, Rabbit, Male, Read-across)
LC50 inhalation rat (ppm)	> 5000 ppm (Equivalent or similar to OECD 403, 24 h, Rat, Male, Experimental value)
ATE US (oral)	16000 mg/kg bodyweight

<b>distillates, hydrotreated light (64742-47-8)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child. Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.

<b>xylene, mixture of isomers (1330-20-7)</b>	
Additional information	Xylene has been found to cause cardiac, liver and kidney effects, anemia and eye damage in laboratory animals. Prolonged and repeated inhalation of hydrocarbon solvents such as xylene can cause chronic neurological disturbances. Chronic exposure to xylene has been shown to cause hearing loss in experimental animals.

<b>distillates, hydrotreated light (64742-47-8)</b>	
Additional information	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

STOT-repeated exposure : May cause damage to organs (central nervous system, liver, kidneys, respiratory system, cardiovascular system) through prolonged or repeated exposure.

<b>distillates, hydrotreated light (64742-47-8)</b>	
Additional information	Repeated overexposure to petroleum naphtha can cause nervous system damage

Aspiration hazard : May be fatal if swallowed and enters airways.

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.

Symptoms/effects after inhalation : Dizziness. Headache. Central nervous system depression. Nausea. Vomiting.

Symptoms/effects after ingestion : Aspiration hazard if swallowed. Nausea. Vomiting.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>toluene (108-88-3)</b>	
LC50 fish 1	5.50 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value)

<b>isopentane (78-78-4)</b>	
LC50 fish 1	4.26 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across)
EC50 Daphnia 1	2.30 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 (algae)	10.70 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Read-across)

<b>n-butane (106-97-8)</b>	
LC50 fish 1	> 1,000.00 mg/l (96 h, Pimephales promelas, QSAR)

<b>xylene, mixture of isomers (1330-20-7)</b>	
LC50 fish 1	2.60 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across)
EC50 Daphnia 1	3.82 mg/l (48 h, Daphnia magna, Flow-through system, Fresh water, Read-across)

### 12.2. Persistence and degradability

<b>toluene (108-88-3)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	2.15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.52 g O <sub>2</sub> /g substance
ThOD	3.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.69

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

<b>isopentane (78-78-4)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.55 g O <sub>2</sub> /g substance
<b>n-butane (106-97-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>xylene, mixture of isomers (1330-20-7)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
<b>hexane (110-54-3)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	3.52 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

<b>SUNOCO 40:1 2-Cycle Pre-Mix</b>	
Log Pow	2 - 7
<b>toluene (108-88-3)</b>	
BCF fish 1	90.00 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)
Log Pow	2.73 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>isopentane (78-78-4)</b>	
BCF fish 1	171.00 (Pimephales promelas, Read-across)
Log Pow	4.00 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).
<b>n-butane (106-97-8)</b>	
Log Pow	2.89 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
<b>xylene, mixture of isomers (1330-20-7)</b>	
BCF fish 1	15.00 8 weeks; Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	7 - 26 (8 weeks; Oncorhynchus mykiss)
Log Pow	3.20 (Conclusion by analogy, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>hexane (110-54-3)</b>	
BCF fish 1	501.19 (Other, Pimephales promelas, QSAR)
Log Pow	4.00 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).

### 12.4. Mobility in soil

<b>toluene (108-88-3)</b>	
Surface tension	27.73 N/m (25 °C)
Ecology - soil	Low potential for adsorption in soil.
<b>isopentane (78-78-4)</b>	
Surface tension	0.02 N/m (25 °C, 100 vol %)
Log Koc	2.90 (log Koc, Read-across)
Ecology - soil	Low potential for adsorption in soil.
<b>n-butane (106-97-8)</b>	
Surface tension	< 0.10 N/m (0 °C)
Ecology - soil	Not applicable (gas).
<b>xylene, mixture of isomers (1330-20-7)</b>	
Surface tension	28.01 - 29.76 mN/m (25 °C)
Ecology - soil	No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation.



# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

hexane (110-54-3)	
Surface tension	0.02 N/m (25 °C, 1 g/l)
Log Koc	Koc,2187.76; Quantitative Study-Activity Relationship; log Koc; 3.34; Quantitative Study-Activity Relationship
Ecology - soil	Low potential for mobility in soil.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment 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 : UN1203 Gasoline, 3, II  
UN-No.(DOT) : UN1203  
Proper Shipping Name (DOT) : Gasoline  
Class (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 Special Provisions (49 CFR 172.102) : 144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.  
177 - Gasoline, or, ethanol and gasoline mixtures, for use in internal combustion engines (e.g, in automobiles, stationary engines and other engines) must be assigned to Packing Group II regardless of variations in volatility.  
B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
B33 - MC 300, MC 301, MC 302, MC 303, MC 305, MC 306, and DOT 406 cargo tanks equipped with a 1 psig normal vent used to transport gasoline must conform to Table I of this Special Provision. Based on the volatility class determined by using ASTM D 439 and the Reid vapor pressure (RVP) of the particular gasoline, the maximum lading pressure and maximum ambient temperature permitted during the loading of gasoline may not exceed that listed in Table I.  
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.  
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)  
DOT Packaging Exceptions (49 CFR 173.xxx) : 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

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

DOT Vessel Stowage Location	: E - 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, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
Emergency Response Guide (ERG) Number	: 128
Other information	: <b>Reportable Quantity:</b> Toluene RQ: 1000 lbs (454 kg); Xylene RQ: 100 lbs (45.4 kg); Hexane RQ: 5000 lbs (2270 kg).

### Transportation of Dangerous Goods

Transport document description	: UN1203 GASOLINE, 3, II
UN-No. (TDG)	: UN1203
Proper Shipping Name (Transportation of Dangerous Goods)	: GASOLINE
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger

### ADR

Needs revision

### Transport by sea

In accordance with IMDG / IMO	
Transport document description (IMDG)	: UN 1203 GASOLINE, 3, II
UN-No. (IMDG)	: 1203
Proper Shipping Name (IMDG)	: GASOLINE
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Subsidiary risk (IMDG)	: <b>Special Provisions:</b> 243, 363
EmS-No. (1)	: F-E
EmS-No. (2)	: S-E

### Air transport

In accordance with IATA / ICAO	
Transport document description (IATA)	: UN 1203 Gasoline, 3, II
UN-No. (IATA)	: 1203
Proper Shipping Name (IATA)	: Gasoline
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
Subsidiary risks (IATA)	: <b>Special Provisions:</b> A100, <b>ERG Code:</b> 3H

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>SUNOCO 40:1 2-Cycle Pre-Mix</b>	
EPA TSCA Regulatory Flag	United States inventory (TCSA 8b): All components are listed or exempt
<b>naphtha (petroleum), light alkylate (64741-66-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>toluene (108-88-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb(s) (454 kg)
<b>isopentane (78-78-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Not subject to reporting requirements of the United States SARA Section 313	

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

<b>n-butane (106-97-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
<b>xylene, mixture of isomers (1330-20-7)</b>	
EPA TSCA Regulatory Flag	EPA: I
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb(s) (45.4 kg)
<b>hexane (110-54-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	EPA: II
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb(s) (2,270 kg)
<b>distillates, hydrotreated light (64742-47-8)</b>	
EPA TSCA Regulatory Flag	United States inventory (TCSA 8b): All components are listed or exempted
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard

### 15.2. International regulations

#### CANADA

<b>SUNOCO 40:1 2-Cycle Pre-Mix</b>	
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.
<b>naphtha (petroleum), light alkylate (64741-66-8)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>isopentane (78-78-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

#### EU-Regulations

No additional information available

#### National regulations

<b>SUNOCO 40:1 2-Cycle Pre-Mix</b>	
DSL (Canada): The intentional ingredients of this product are listed	
<b>toluene (108-88-3)</b>	
Listed on RCRA Hazardous Substances Toluene (108-88-3) RCRA Code: U220	
<b>xylene, mixture of isomers (1330-20-7)</b>	
Listed on RCRA Hazardous Substances Xylenes (1330-20-7) RCRA Code: U239 Listed on the SC Toxic Air Pollutants List Listed on Title V Clean Water Act (CWA) 311	

### 15.3. US State regulations

**WARNING:** This product can expose you to toluene and hexane which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<b>toluene (108-88-3)</b>				
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	Yes	Yes	

# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

hexane (110-54-3)				
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	No	No	Yes	

toluene (108-88-3)
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 U.S. - Minnesota - Hazardous Substance List

isopentane (78-78-4)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

n-butane (106-97-8)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

xylene, mixture of isomers (1330-20-7)
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List New York- Reporting of Releases Par 597- List of Hazardous Substances: 1000 lb RQ (air); 1 lb RQ (land/water)

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

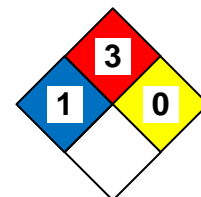
## SECTION 16: Other information

Revision date : 09/14/2018  
Other information : None.

Full text of H-statements:

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.  
NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.  
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



# SUNOCO 40:1 2-Cycle Pre-Mix

## Safety Data Sheet

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

---

*Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.*