## **SAFETY DATA SHEET**



TruFuel 50:1 Mix

### **Section 1. Identification**

GHS product identifier : TruFuel 50:1 Mix

Product code : 0125600

Other means of : Not available. identification

Product type : Liquid.

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

Identified uses	
Consumer products: Fuel. Industrial applications: Fuel.	
Here advised against	Poscon

Supplier's details : Calumet Packaging

10411 Highway 1

Shreveport, LA 71115 USA

318-795-3800

Emergency telephone number (with hours of operation) : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

### Section 2. Hazards identification

#### **OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B

TOXIC TO REPRODUCTION (Fertility) - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 11.8%

**GHS label elements** 

Hazard pictograms







Signal word : Danger

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### Section 2. Hazards identification

#### **Hazard statements**

: Extremely flammable liquid and vapor.

Causes serious eye irritation.

Causes skin irritation.
May cause cancer.

Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways.

May cause drowsiness and dizziness.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

#### **General**

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

#### **Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash hands thoroughly after handling.

### Response

Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### **Storage**

: Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Supplemental label

elements

: Avoid contact with skin and clothing. Wash thoroughly after handling.

**Hazards not otherwise** 

classified

: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

#### Substance/mixture

Other means of identification

: Mixture

: Not available.

### **CAS** number/other identifiers

**CAS number** : Not applicable.

Ingredient name	%	CAS number
Naphtha (petroleum), full-range alkylate, butane-contg.	≥50 - <75	68527-27-5
pentane	≥10 - <25	109-66-0
toluene	≥6 - <10	108-88-3
xylene	≥5 - <9.8	1330-20-7
ethylbenzene	≥1 - <1.8	100-41-4
Naphtha (petroleum), hydrotreated light	≥0.3 - <1	64742-49-0
Distillates (petroleum), sweetened middle	≥0.1 - <0.3	64741-86-2
n-hexane "	≥0.1 - <0.3	110-54-3

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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### Section 3. Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness and

dizziness.

**Skin contact** 

: Causes skin irritation. Defatting to the skin.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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### Section 4. First aid measures

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Extremely flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and provented from being displayed to appropriate sewer or drain.

prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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### Section 6. Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

#### Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

### **Precautions for safe handling**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

### **Advice on general** occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Naphtha (petroleum), full-range alkylate, butane-contg.	ACGIH TLV (United States).
	TWA: 200 ppm 8 hours.
pentane	ACGIH TLV (United States, 4/2014).
	TWA: 1000 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 1000 ppm 8 hours.
	TWA: 2950 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 600 ppm 8 hours.
	TWA: 1800 mg/m <sup>3</sup> 8 hours.
	STEL: 750 ppm 15 minutes.
	STEL: 2250 mg/m³ 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 120 ppm 10 hours.
	TWA: 350 mg/m <sup>3</sup> 10 hours.
	CEIL: 610 ppm 15 minutes.
Ash	CEIL: 1800 mg/m³ 15 minutes.
toluene	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	OSHA PEL Z2 (United States, 2/2013).
	TWA: 200 ppm 8 hours.
	CEIL: 300 ppm
	AMP: 500 ppm 10 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 375 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 375 mg/m <sup>3</sup> 10 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 560 mg/m³ 15 minutes.
xylene	ACGIH TLV (United States, 4/2014).
Хуюно	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 655 mg/m³ 15 minutes.
ethylbenzene	ACGIH TLV (United States, 4/2014).
•	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes.
	TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes.
	TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes.

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### Section 8. Exposure controls/personal protection

Naphtha (petroleum), hydrotreated light

Distillates (petroleum), sweetened middle

n-hexane

TWA: 435 mg/m³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. OSHA PEL (United States).

TWA: 500 ppm 8 hours.
TWA: 1800 mg/m³ 8 hours.

ACGIH TLV (United States). TWA: 50 ppm 8 hours.

ACGIH TLV (United States).
TWA: 200 ppm 8 hours.

ACGIH TLV (United States, 4/2014).

Absorbed through skin. TWA: 50 ppm 8 hours.

OSHA PEL (United States, 2/2013).

TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 50 ppm 8 hours. TWA: 180 mg/m³ 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 50 ppm 10 hours. TWA: 180 mg/m³ 10 hours.

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

### **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### Section 8. Exposure controls/personal protection

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Mobile liquid.]

Color : Red.

Odor : Characteristic. Hydrocarbon.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : 34.444 to 190.56°C (94 to 375°F)

Flash point : Closed cup: -40°C (-40°F) [Tagliabue.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 0.72

**Solubility** : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): <0.01 cm²/s (<1 cSt)

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), full-	LD50 Oral	Rat	>5000 mg/kg	-
range alkylate, butane-contg.				
pentane	LC50 Inhalation Vapor	Rat	364 g/m³	4 hours
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rat	4000 ppm	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Naphtha (petroleum), hydrotreated light	LC50 Inhalation Vapor	Rat	>5.2 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), sweetened middle	LC50 Inhalation Dusts and mists	Rat	4.6 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
n-hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	OLI MATERIAL CONT	D. 1.1.11		microliters	
	Skin - Mild irritant	Rabbit	-	435	-
	Skin - Moderate irritant	Rabbit		milligrams 24 hours 20	
	Skiii - Moderate iiritarit	INADDIL	-	milligrams	-
	Skin - Moderate irritant	Rabbit	_	500	_
				milligrams	
xylene	Eyes - Mild irritant	Rabbit	_	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
	Chin Madayata iguitant	Rabbit		milligrams	
ethylbenzene	Skin - Moderate irritant Eyes - Severe irritant	Rabbit	_	100 Percent 500	-
etryberizerie	Lyes - Severe imiant	Nabbit	_	milligrams	_
	Skin - Mild irritant	Rabbit	_	24 hours 15	_
		T G S S I C		milligrams	
Naphtha (petroleum), hydrotreated light	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
n-hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-

### **Sensitization**

Not available.

### **Mutagenicity**

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Not available.

### **Carcinogenicity**

Not available.

**Conclusion/Summary** 

: Animal tumorigen. May cause tumors.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
toluene	-	3	-
xylene	-	3	-
ethylbenzene	-	2B	-

### **Reproductive toxicity**

Not available.

**Conclusion/Summary** 

: Reproductive toxicant - female Suspected of damaging the unborn child if inhaled.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), full-range alkylate, butane-contg. pentane toluene	Category 3 Category 3 Category 3	Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Respiratory tract irritation and Narcotic effects
xylene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
ethylbenzene Naphtha (petroleum), hydrotreated light n-hexane	Category 3 Category 3 Category 3	Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
toluene ethylbenzene Distillates (petroleum), sweetened middle	Category 2 Category 2 Category 2	Not determined Not determined Not determined	kidneys and liver ears blood system, liver and thymus
n-hexane	Category 2	Not determined	peripheral nervous system

### **Aspiration hazard**

Name	Result
Naphtha (petroleum), full-range alkylate, butane-contg.	ASPIRATION HAZARD - Category 1
pentane	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1
xvlene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Distillates (petroleum), sweetened middle	ASPIRATION HAZARD - Category 1
n-hexane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

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### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness and

dizziness.

**Skin contact**: Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity**: Suspected of damaging the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

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### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
	5728.6 mg/kg
Dermal	11934.8 mg/kg
Inhalation (gases)	44920.8 ppm

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
toluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 μg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2930 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Naphtha (petroleum), hydrotreated light	Acute EC50 1 to 10 mg/l	Algae	72 hours
, ,	Acute EC50 1 to 10 mg/l	Daphnia	48 hours
	Acute LC50 1 to 10 mg/l	Fish	96 hours
Distillates (petroleum), sweetened middle	Chronic EC50 2 to 100 mg/l	Algae	72 hours
	Chronic EC50 2 to 100 mg/l	Crustaceans	48 hours
n-hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	70 to 80 % - 28 day	S	-	-
Product/ingredient name	Aquatic half-life		Photolysis	<u> </u>	Biodegradability
toluene xylene ethylbenzene Naphtha (petroleum), hydrotreated light	-		- - - -		Readily Readily Readily Inherent
Distillates (petroleum), sweetened middle	-		-		Not readily

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#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Naphtha (petroleum), full- range alkylate, butane-contg.	-	10 to 2500	high
pentane	3.45	171	low
toluene	2.73	90	low
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
Naphtha (petroleum),	2.2 to 5.2	10 to 2500	high
hydrotreated light			
Distillates (petroleum), sweetened middle	≥4	-	high
n-hexane	4	501.187	high

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification : D001 [Flammable]

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Xylene	1330-20-7	Listed	U239
Toluene; Benzene, methyl-	108-88-3	Listed	U220

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1203	UN1203	UN1203	UN1203
UN proper shipping name	Gasoline	Gasoline	GASOLINE	Gasoline
Transport hazard class(es)	3	3	3	3

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## **Section 14. Transport information**

	•			
Packing group	II	I	II	II
Environmental hazards	No.	No.	No.	No.
Additional information	Limited quantity Yes.  Packaging instruction Passenger aircraft Quantity limitation: 5 L  Cargo aircraft Quantity limitation: 60 L  Special provisions 144, 177, B1, B33, IB2, T8  Remarks May be classed as a Consumer Commodity, ORM-D for Small Packages, see 49CFR 173.150	_	Emergency schedules (EmS) F-E, S-E Special provisions 243	Passenger and Cargo AircraftQuantity limitation: 5 L Packaging instructions: 353 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 364 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341 Special provisions A100

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according**: Not available. to Annex II of MARPOL 73/78 and the IBC Code

### **Section 15. Regulatory information**

**U.S. Federal regulations** 

: TSCA 8(a) PAIR: pentane

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

All components are listed or exempted.

Clean Water Act (CWA) 307: ethylbenzene; toluene

Clean Water Act (CWA) 311: xylene; ethylbenzene; toluene

Clean Air Act (CAA) 112 regulated flammable substances: isopentane; pentane

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602

: Not listed

**Class II Substances DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

: Listed

**DEA List II Chemicals** (Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

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### Section 15. Regulatory information

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Naphtha (petroleum), full-range	≥50 - <75	Yes.	No.	No.	Yes.	No.
alkylate, butane-contg.						
pentane	≥10 - <25	Yes.	No.	No.	Yes.	No.
toluene	≥6 - <10	Yes.	No.	No.	Yes.	Yes.
xylene	≥5 - <9.8	Yes.	No.	No.	Yes.	Yes.
ethylbenzene	≥1 - <1.8	Yes.	No.	No.	Yes.	Yes.
Naphtha (petroleum), hydrotreated light	≥0.3 - <1	Yes.	No.	No.	Yes.	Yes.
Distillates (petroleum), sweetened middle	≥0.1 - <0.3	Yes.	No.	No.	Yes.	Yes.
n-hexane	≥0.1 - <0.3	Yes.	No.	No.	Yes.	Yes.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	xylene	108-88-3 1330-20-7 100-41-4	≥6 - <10 ≥5 - <9.8 ≥1 - <1.8
Supplier notification	xylene	108-88-3 1330-20-7 100-41-4	≥6 - <10 ≥5 - <9.8 ≥1 - <1.8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

Massachusetts : The following components are listed: XYLENE; ETHYL BENZENE; TOLUENE;

ISOPENTANE; PENTANE

New York : The following components are listed: Xylene (mixed); Ethylbenzene; Toluene

New Jersey : The following components are listed: XYLENES; BENZENE, DIMETHYL-; ETHYL

BENZENE; BENZENE, ETHYL-; TOLUENE; BENZENE, METHYL-; ISOPENTANE;

BUTANE, 2-METHYL-; PENTANE

Pennsylvania : The following components are listed: BENZENE, DIMETHYL-; BENZENE, ETHYL-;

BENZENE, METHYL-; BUTANE, 2-METHYL-; PENTANE

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 µg/day (ingestion)
ethylbenzene	Yes.		41 μg/day (ingestion) 54 μg/day (inhalation)	No.

### **International lists**

### **National inventory**

Australia : All components are listed or exempted.

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### Section 15. Regulatory information

: All components are listed or exempted. Canada

China : Not determined.

**Europe** All components are listed or exempted.

**Japan** : Not determined. **Malaysia** Not determined. **New Zealand** : Not determined. **Philippines** : Not determined.

Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 1, H224	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2A, H319	Calculation method
Carc. 1B, H350	Calculation method
Repr. 2, H361 (Fertility)	Calculation method
Repr. 2, H361 (Unborn child)	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Acute 3, H402	Calculation method
Aquatic Chronic 3, H412	Calculation method

### **History**

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**Key to abbreviations** 

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

▼ Indicates information that has changed from previously issued version.

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#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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