



SAFETY DATA SHEET

Gasoline (All Grades)

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

1.1 Product identifier

Product name : Gasoline (All Grades)
Commercial name(s) : Petroleum Hydrocarbon
REACH Registration number : 01-2119471335-39-0096
Product code : MSDS-7
Other means of identification : Motor Gasoline, Petrol, Gas, BS 7800, BS EN 228

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

Identified uses : Motor Fuel.

1.3 Details of the supplier of the safety data sheet

Murco Petroleum Limited
 4 Beaconsfield Road
 St.Albans
 Hertfordshire
 AL1 3RH
 Tel: 01727 892400
 Web Site: <http://www.murco.co.uk/welcome.htm>

e-mail address of person responsible for this SDS : murco_msds@murphyoilcorp.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Carechem24 Agreement through AEA Technology Plc who act through its National Emergency Centre.
 0870 190 6777
 (7/24)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : F+; R12
 Carc. Cat. 1; R45
 Muta. Cat. 2; R46
 Xn; R65
 Xi; R38
 N; R51/53

Physical/chemical hazards : Extremely flammable.

Human health hazards : May cause cancer. May cause heritable genetic damage. Also harmful: may cause lung damage if swallowed. Irritating to skin.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases declared above.

See Section 11 for more detailed information on health effects and symptoms.



SECTION 2: Hazards identification

2.2 Label elements

Hazard symbol or symbols : F+, T, N



Indication of danger : Extremely flammable, Toxic, Dangerous for the environment

Risk phrases : R12- Extremely flammable.
R45- May cause cancer.
R46- May cause heritable genetic damage.
R65- Also harmful: may cause lung damage if swallowed.
R38- Irritating to skin.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S15- Keep away from heat.
S53- Avoid exposure - obtain special instructions before use.
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Contains : Gasoline
Benzene

Supplemental label elements : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

Other hazards which do not result in classification : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Mixture

Ingredient name	CAS number	%	EC number	Classification
Gasoline	86290-81-5	89 - 100	289-220-8	Carc. Cat. 2; R45 [1] Muta. Cat. 2; R46 Xn; R65
Contains: Toluene	108-88-3	<20	203-625-9	F; R11 [1] [2] Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67
Xylene	1330-20-7	<15	215-535-7	R10 [1] [2] Xn; R20/21 Xi; R38
Ethyl Alcohol	64-17-5	<11	200-578-6	F; R11 [2]
Ethylbenzene	100-41-4	<5	202-849-4	F; R11 [1] [2] Xn; R20
n-hexane	110-54-3	<5	203-777-6	F; R11 [1] [2] Repr. Cat. 3; R62



3. COMPOSITION/INFORMATION ON INGREDIENTS

Naphthalene	91-20-3	<5	202-049-5	Xn; R48/20, R65 Xi; R38 R67 N; R51/53 Carc. Cat. 3; R40 [1] [2] Xn; R22 N; R50/53
1,2,4-Trimethylbenzene	95-63-6	<5	202-436-9	R10 [1] [2] Xn; R20 Xi; R36/37/38 N; R51/53
Trimethylbenzene	25551-13-7	<5	247-099-9	R10 [2]
Benzene	71-43-2	<1	200-753-7	F; R11 [1] [2] Carc. Cat. 1; R45 Muta. Cat. 2; R46 T; R48/23/24/25 Xn; R65 Xi; R36/38
See Section 16 for the full text of the R-phrases declared above.				

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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : After contact with skin, wash immediately with plenty of soap and water. Get medical attention.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control centre immediately.
- Protection of first-aiders** : 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.

4.2 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products** : Smoke, Fume, Aldehydes, Sulfur Oxides, Incomplete combustion products, Oxides of carbon.



SECTION 5: Firefighting measures

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- 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

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 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 Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

- : 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. Prevent leaking substances from running into the aquatic environment or the sewage system.

6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** : 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). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Avoid breathing mists or vapors. Avoid contact with skin. Use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Do not siphon by mouth. Use only with adequate ventilation. Use proper bonding and/or grounding procedures. Do not use as a cleaning solvent or other non-motor fuel uses. For use as a motor fuel only. It is dangerous and/or unlawful to put fuel into unapproved containers. Do not fill container while it is in or on a vehicle. Static electricity may ignite vapors and cause fire. Place container on ground when filling and keep nozzle in contact with container. Do not use electronic devices (including but not limited to cellular phones, computers, calculators, pagers or other electronic devices, etc.) in or around any fueling operation or storage area unless the devices are certified intrinsically safe by an approved national testing agency and to the safety standards required by national



SECTION 7: Handling and storage

and/or local laws and regulations. Prevent small spills and leakage to avoid slip hazard. Material may accumulate static.

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.

7.2 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. Handle containers with care. Open slowly in order to control possible pressure release. Outside or detached storage preferred. Storage containers should be grounded and bonded. Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters.

7.3 Specific end use(s)

Recommendations

- : Not available.

Industrial sector specific solutions

- : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Ethyl Alcohol	EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 1920 mg/m ³ 8 hour(s). TWA: 1000 ppm 8 hour(s).
Xylene	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 441 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 220 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).
Toluene	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 384 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 191 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 552 mg/m ³ 15 minute(s). STEL: 125 ppm 15 minute(s). TWA: 441 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).
n-Hexane	EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 72 mg/m ³ 8 hour(s). TWA: 20 ppm 8 hour(s).
Naphthalene	EU OEL (Europe, 12/2009). TWA: 50 mg/m ³ 8 hour(s). TWA: 10 ppm 8 hour(s).
1,2,4-Trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 125 mg/m ³ 8 hour(s). TWA: 25 ppm 8 hour(s).
Trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 125 mg/m ³ 8 hour(s). TWA: 25 ppm 8 hour(s).
Benzene	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.

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

TWA: 1 ppm 8 hour(s).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2 Exposure controls

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation location. 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.

Eye/face protection : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin protection

Hand protection : Use gloves appropriate for work or task being performed. Recommended: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

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. Recommended: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

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.

Respiratory protection : 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. Recommended: No special requirements under ordinary conditions of use and with adequate ventilation.

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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

- Physical state** : Liquid.
- Colour** : Clear (May Be Dyed).
- Odour** : Petroleum/Solvent.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : 20°C
- Flash point** : Closed cup: <-40°C [Pensky-Martens.]
- Evaporation rate** : >10 (butyl acetate = 1)
- Flammability** : Not available.



SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	: Lower: 1.4% Upper: 7.5%
Vapour pressure	: 46.9 to 97.3 kPa [20°C]
Vapour density	: 3 [Air = 1]
Relative density	: 0.72
Specific gravity	: 0.72 g/cm ³
Solubility(ies)	: Negligible.
Auto-ignition temperature	: >254°C
Viscosity	: Kinematic (40°C): <0.01 cm ² /s (<1 cSt)

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid release to the environment. Refer to special instructions/safety data sheet.

10.5 Incompatible materials : Highly reactive or incompatible with the following materials:
oxidizing materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Gasoline	LD50 Oral	Rat	13.6 g/kg	-
Ethyl Alcohol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
n-Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Dermal	Rat	>2500 mg/kg	-
	LD50 Oral	Rat	490 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
Benzene	LD50 Oral	Rat	930 mg/kg	-



SECTION 11: Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl Alcohol	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Xylene	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rat	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Toluene	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Pig	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
n-Hexane	Eyes - Mild irritant	Rabbit	-	-	-
Naphthalene	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-
Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Benzene	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rat	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Inhalation** : Minimally toxic. Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
- Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
- Skin contact** : Moderately irritating to skin with prolonged exposure. May be harmful in contact with skin.
- Eye contact** : May cause mild, short-lasting discomfort to eyes.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Eye contact** : No specific data.

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

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : May cause heritable genetic effects.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.



SECTION 11: Toxicological information

Fertility effects : No known significant effects or critical hazards.
Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Ethyl Alcohol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
Xylene	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC <6.3 g/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 10 mg/L	Algae	72 hours
Toluene	Acute LC50 8500 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 3300 to 4093 ug/L Fresh water	Fish - Oncorhynchus mykiss - 0.6 g	96 hours
	Acute EC50 12500 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
Ethylbenzene	Acute EC50 6000 ug/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 5500 ug/L Fresh water	Fish - Oncorhynchus kisutch - Fry - 1 g	96 hours
n-Hexane	Chronic NOEC 28000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Acute EC50 4600 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Naphthalene	Acute EC50 2970 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
	Acute LC50 >5200 ug/L Marine water	Crustaceans - Americamysis bahia - <24 hours	48 hours
	Acute LC50 4200 ug/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
1,2,4-Trimethylbenzene	Chronic NOEC 6800 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Chronic NOEC 3300 ug/L Marine water	Fish - Menidia menidia	96 hours
	Acute LC50 2500 to 2980 ug/L Fresh water	Fish - Pimephales promelas - 31 days - 20.4 mm - 0.123 g	96 hours
Benzene	Acute EC50 1600 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
	Acute LC50 2350 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 ug/L Fresh water	Fish - Melanotaenia fluviatilis - Larvae - 1 days	96 hours
Trimethylbenzene	Chronic NOEC 600 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Acute LC50 17000 ug/L Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 7720 to 8280 ug/L Fresh water	Fish - Pimephales promelas - 34 days	96 hours
Benzene	Acute LC50 5600 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute EC50 29000 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >1360000 ug/L Fresh water	Algae - Scenedesmus abundans	96 hours
Benzene	Acute EC50 9230 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
	Acute LC50 21000 ug/L Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 5.28 u/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
Benzene	Chronic NOEC <13000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hour	48 hours

Remarks : See above.

12.2 Persistence and degradability

Remarks : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Gasoline	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Gasoline	2 to 7	-	high
Ethyl Alcohol	-0.32	-	low
Toluene	2.69	-	low
Ethylbenzene	3.1	-	high
n-Hexane	3.9	-	high
Naphthalene	3.3	-	high
1,2,4-Trimethylbenzene	3.8	-	high
Trimethylbenzene	3.4 to 3.8	-	high



SECTION 12: Ecological information

Benzene	2.13	-	low
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12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.







Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN1203	UN1203	UN1203	UN1203
14.2 UN proper shipping name	GASOLINE	GASOLINE	GASOLINE. Marine pollutant	GASOLINE
14.3 Transport hazard class(es)	3 	3 	3  	3  
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.



SECTION 14: Transport information

Additional information	-	-	Emergency schedules (EmS) F-E, S-E	-
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PG* : Packing group

Exemption to the above classification may apply.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

Other EU regulations

Europe inventory : All components are listed or exempted.

Black List Chemicals : Not listed

Priority List Chemicals : Listed

Integrated pollution prevention and control list (IPPC) - Air : Not listed

Integrated pollution prevention and control list (IPPC) - Water : Not listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Gasoline	Carc. Cat. 2; R45	Muta. Cat. 2; R46	-	-
Toluene	-	-	Repr. Cat. 3; R63	-
n-Hexane	-	-	-	Repr. Cat. 3; R62
Naphthalene	Carc. Cat. 3; R40	-	-	-
Benzene	Carc. Cat. 1; R45	Muta. Cat. 2; R46	-	-

Product/ingredient name	List name	Name on list	Classification	Notes
Benzene	UK Occupational Exposure Limits EH40 - WEL	benzene; benzol	Carc.	-

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Full text of abbreviated R phrases : R12- Extremely flammable.
 R11- Highly flammable.
 R10- Flammable.
 R45- May cause cancer.
 R40- Limited evidence of a carcinogenic effect.
 R46- May cause heritable genetic damage.
 R62- Possible risk of impaired fertility.
 R63- Possible risk of harm to the unborn child.

**SECTION 16: Other information**

R48/23/24/25- Also toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R20- Also harmful by inhalation.

R22- Also harmful if swallowed.

R20/21- Also harmful by inhalation and in contact with skin.

R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.

R65- Also harmful: may cause lung damage if swallowed.

R38- Irritating to skin.

R36/38- Irritating to eyes and skin.

R36/37/38- Irritating to eyes, respiratory system and skin.

R67- Vapours may cause drowsiness and dizziness.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]

: F+ - Extremely flammable
 F - Highly flammable
 Carc. Cat. 1 - Carcinogen category 1
 Carc. Cat. 2 - Carcinogen category 2
 Carc. Cat. 3 - Carcinogen category 3
 Muta. Cat. 2 - Mutagen category 2
 Repr. Cat. 3 - Toxic to reproduction category 3
 T - Toxic
 Xn - Harmful
 Xi - Irritant
 N - Dangerous for the environment

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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.