SAFETY DATA SHEET



Section 1. Identification

Product name	BP Unleaded Gasolines
SDS #	12631
Code	12631
Relevant identified uses of t	the substance or mixture and uses advised against
Product use	USE AS MOTOR FUEL ONLY.
Supplier	BP Products North America Inc. 30 South Wacker Drive Chicago, IL 60606 USA
EMERGENCY HEALTH	1 (800) 447-8735
	Outside the US: +1 703-527-3887 (CHEMTREC)
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA)

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 GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1

GHS label elements

Hazard pictograms



Signal word Hazard statements Danger Extremely flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.

Precautionary statements

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Section 2. Hazards identification

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor 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. IF ON SKIN: Wash with plenty of soap and water. 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 container tightly closed. Keep cool.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity.
Hazards not otherwise classified	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire or explosion.

Section 3. Composition/information on ingredients

Substance/mixture Mixture		
Ingredient name	CAS number	%
Gasoline	Mixture	85 - 100
Ethanol	64-17-5	0 - 15
Contains:		
Benzene	71-43-2	0 - 3.8
Cyclohexane	110-82-7	0 - 1
Ethylbenzene	100-41-4	0 - 2
Toluene	108-88-3	4 - 11
1,2,4-Trimethylbenzene	95-63-6	0 - 3
xylene	1330-20-7	4 - 11
Naphthalene	91-20-3	0 - 0.5

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 and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.		
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Clean shoes thoroughly before reuse. Get medical attention.		
Inhalation	If inhaled, remove to fresh air. Get medical attention. If exposure to vapor, mists or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest. If any symptoms persist obtain medical advice.		

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Section 4. First aid measures

Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical attention immediately.		
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.		
Most important symptoms/eff	ects, acute and delayed		
See Section 11 for more deta	ailed information on health effects and symptoms.		
Indication of immediate medical attention and special treatment needed, if necessary			

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.
Specific treatments	No specific treatment.

Section 5. Fire-fighting measures

	-
Extinguishing media	
Suitable extinguishing media	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.
Specific hazards arising from the chemical	Extremely flammable liquid and vapor. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 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. Vapors can form explosive mixtures with air. Vapors are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Liquid will float and may reignite on surface of water.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Special protective actions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. 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 positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protective	e equipment and emergency procedures
For non-emergency personnel	Immediately contact 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. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources. Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained positive pressure breathing apparatus (SCBA).
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".
Environmental precautions	Liquid leaks generate large volumes of flammable vapor, heavier than air, which may travel to remote sources of ignition (eg. along drainage systems). 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. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect recovered product and other contaminated materials in suitable tanks or containers for recycle, recovery or safe disposal.

Methods and materials for containment and cleaning up

Small spill Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Large spill Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dike spill area and do not allow product to reach sewage system and surface or ground water. 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. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for s	afe handling			
Protective meas	Sures Put on appropriate personal obtain special instructions be until all safety precautions has skin or clothing. Do not swa cause damage. Never sipho adequate ventilation. Wear in the original container or an kept tightly closed when not or any other ignition source. material handling) equipmen measures against electrosta can be hazardous. Do not re with soil and surface waterw	fore use. Avoid expo ave been read and un llow. Aspiration haza on by mouth. Avoid bi appropriate respirator n approved alternative in use. Store and use Use explosion-proof t. Use only non-spart tic discharges. Empt euse container. Avoid	osure during pre- inderstood. Do n and if swallowed. reathing vapor of r when ventilation e made from a co e away from hea electrical (venti king tools. Tako y containers ret d contact of spil	egnancy. Do not handle tot get in eyes or on Can enter lungs and or mist. Use only with on is inadequate. Keep compatible material, at, sparks, open flame lating, lighting and e precautionary ain product residue and led material and runoff
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Section 7. Handling and storage

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	static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Restrict flow velocity according to API 2003 (2008), NFPA 77 (2007), and Laurence Britton, "Avoiding Static Ignition Hazards in Chemical Operations". To reduce potential for static discharge, ensure that all equipment is properly grounded and bonded and meets appropriate electrical classification requirements.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. 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. Store and use only in equipment/ containers designed for use with this product. 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.
	Light hydrocarbon vapors can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperatures below the normal flash point (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapor in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks. Do not enter storage tanks. If entry to vessels is necessary, follow permit to work procedures. Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. When the product is pumped (e.g. during filling, discharge or ullaging) and when sampling, there is a risk of static discharge. Ensure equipment used is properly earthed or bonded to the tank structure. Electrical equipment should not be used unless it is intrinsically safe (i.e. will not produce sparks). Explosive air/vapor mixtures may form at ambient temperature. If product comes into contact with hot surfaces, or leaks occur from pressurized fuel pipes, the vapor or mists generated will create a flammability or explosion hazard. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to

accumulate. Dispose of safely immediately after use.

Do not enter storage tanks without breathing apparatus unless the tank has been well ventilated and the tank atmosphere has been shown to contain hydrocarbon vapor concentrations of less than 1% of the lower flammability limit and an oxygen concentration of at least 20% volume.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Sasoline	ACGIH TLV (United States). TWA: 300 ppm 8 hours. Issued/Revised: 5/1996 TWA: 890 mg/m ³ 8 hours. Issued/Revised: 5/1996 STEL: 500 ppm 15 minutes. Issued/Revised: 5/1996 STEL: 1480 mg/m ³ 15 minutes. Issued/ Revised: 5/1996
Ethanol	ACGIH TLV (United States). STEL: 1000 ppm 15 minutes. Issued/Revised: 11/2008
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Section 8. Exposure controls/personal protection					
	OSHA PEL (United States). TWA: 1900 mg/m ³ 8 hours. Issued/Revised: 6/1993 TWA: 1000 ppm 8 hours. Issued/Revised: 6/1993				
Toluene	OSHA PEL Z2 (United States). AMP: 500 ppm 10 minutes. Issued/Revised: 6/1993 CEIL: 300 ppm Issued/Revised: 6/1993 TWA: 200 ppm 8 hours. Issued/Revised: 6/1993 ACGIH TLV (United States). Ototoxicant. TWA: 20 ppm 8 hours. Issued/Revised: 11/2006				
xylene	ACGIH TLV (United States). STEL: 651 mg/m ³ 15 minutes. Issued/ Revised: 5/1996 STEL: 150 ppm 15 minutes. Issued/Revised: 5/1996 TWA: 434 mg/m ³ 8 hours. Issued/Revised: 5/1996 OSHA PEL (United States). TWA: 435 mg/m ³ 8 hours. Issued/Revised: 6/1993 TWA: 100 ppm 8 hours. Issued/Revised: 6/1993				
Benzene	ACGIH TLV (United States). Absorbed through skin. STEL: 8 mg/m ³ 15 minutes. Issued/Revised: 5/1997 STEL: 2.5 ppm 15 minutes. Issued/Revised: 5/1997 TWA: 1.6 mg/m ³ 8 hours. Issued/Revised: 5/1997 OSHA PEL (United States). STEL: 5 ppm 15 minutes. Issued/Revised: 6/1993 TWA: 1 ppm 8 hours. Issued/Revised: 6/1993 OSHA PEL Z2 (United States). AMP: 50 ppm 10 minutes. Issued/Revised: 6/1993 CEIL: 25 ppm Issued/Revised: 6/1993 TWA: 10 ppm 8 hours. Issued/Revised: 6/1993				
1,2,4-Trimethylbenzene	ACGIH TLV (United States). TWA: 123 mg/m ³ 8 hours. Issued/Revised: 9/1994 TWA: 25 ppm 8 hours. Issued/Revised: 9/1994				
Ethylbenzene	ACGIH TLV (United States). TWA: 20 ppm 8 hours. Issued/Revised: 12/2010 OSHA PEL (United States). TWA: 435 mg/m ³ 8 hours. Issued/Revised: 6/1993				
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Section 8. Exposure controls/personal protection		
	TWA: 100 ppm 8 hours. Issued/Revised: 6/1993	
cyclohexane	ACGIH TLV (United States).	
	TWA: 100 ppm 8 hours. Issued/Revised: 1/2002	
	OSHA PEL (United States).	
	TWA: 1050 mg/m ³ 8 hours. Issued/Revised:	
	6/1993	
	TWA: 300 ppm 8 hours. Issued/Revised:	
	6/1993	
naphthalene	ACGIH TLV (United States). Absorbed	
	through skin.	
	TWA: 52 mg/m ³ 8 hours. Issued/Revised:	
	5/1996	
	TWA: 10 ppm 8 hours. Issued/Revised: 5/1996	
	OSHA PEL (United States).	
	TWA: 50 mg/m ³ 8 hours. Issued/Revised:	
	6/1993	
	TWA: 10 ppm 8 hours. Issued/Revised:	
	6/1993	

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Appropriate engineering controls	All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.				
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	Chemical splash goggles.				
Skin protection	N				
Hand protection Wear chemical resistant gloves. Do not re-use gloves. Protective gloves must give suitable protection against mechanical risks (i.e. abrasion, blade cut and puncture). Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloon a regular basis. Recommended: Gloves made from fluoroelastomer resistant to hydrocarbons and a wide range of chemicals.					
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Section 8. Exposure controls/personal protection

Body protection	Use of protective clothing is good industrial practice.
	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.
	Cotton or polyester/cotton overalls will only provide protection against light superficial
	contamination that will not soak through to the skin. Overalls should be laundered on a
	regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or
	if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical
	suits and boots will be required. Wear suitable protective clothing.
	Footwear highly resistant to chemicals.
	When there is a risk of ignition wear inherently fire resistant protective clothes and
	gloves.
	When there is a risk of ignition from static electricity, wear anti-static protective clothing.
	For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static.
	When the risk of skin exposure is high (from experience this could apply to the following
	tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required.
	Work clothing / overalls should be laundered on a regular basis. Laundering of
	contaminated work clothing should only be done by professional cleaners who have
	been told about the hazards of the contamination. Always keep contaminated work
	clothing away from uncontaminated work clothing and uncontaminated personal clothes.
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	Use only with adequate ventilation. Do not breathe vapor or mist. If ventilation is
	inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.
	If operating conditions cause high vapor concentrations or the TLV is exceeded, use
	NIOSH-certified, supplied-air respirator.
	Use with adequate ventilation.
	If there is a requirement for the use of a respiratory protective device, but the use of breathing apparatus (independent of ambient atmosphere) is not required, then a suitable filtering device must be worn.
	The filter class must be suitable for the maximum contaminant concentration (gas/vapor/ aerosol/particulates) that may arise when handling the product.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	Clear, Liquid.
Color	Colorless to light yellow.
Odor	Gasoline
Odor threshold	0.025 ppm (Based on Gasoline)
рН	Not applicable. Based on Solubility in water (Very slightly soluble in water)
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	26.67 to 221.1°C (80 to 430°F)
Flash point	Closed cup: -42.778°C (-45°F)
Evaporation rate	Not available.
Flammability	Not applicable. Based on - Physical state
Lower and upper explosion	Lower: 1.3%
limit/flammability limit	Upper: 7.6% (Estimated.)
Vapor pressure	48.3 to 103.4 kPa (361.97 to 775.66 mm Hg) [37.8°C (100°F)]

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Section 9. Physical and chemical properties

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
⊑ thanol	42.95	5.7				
Toluene	23.17	3.1				
Benzene	75.01	10				
Ethylbenzene	9.3	1.2				
cyclohexane	93.01	12.4				

Relative vapor density

750 kg/m3 (0.75 g/cm3)

3 to 4 [Air = 1]

Solubility(ies)

Density

Media	Result	
water	Very slightly soluble	
Miscible with water	No.	
Partition coefficient: n- octanol/water	>3	
Auto-ignition temperature	257°C (494.6°F)	
Decomposition temperature	Not available.	
Viscosity	Kinematic: <20.5 mm²/s (<20.5 cSt) at 40°C	
Particle characteristics		
Median particle size	Not applicable.	

Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials. Chlorine and Fluorine
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects							
Acute toxicity							
Product/ingredient name	Test	Species	Result	Exposure	Remarks		

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Va Conclusion/Summary Finitation/Corrosion Product/ingredient name Sasoline Ra Ethanol Ra Ra Ra	50 Inhalat por 50 Inhalat por 50 Derma 50 Oral 50 Inhalat por 50 Inhalat por 50 Inhalat por 50 Inhalat	tion Rat tion Rat al Rabbit Rat tion Rat tion Rat tion Rat classified. Bas Result Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	ed on av Score	>5610 g/n analytical >7630 mg Nominal >2000 mg 25000 mg 124.7 mg/ 116.9 mg/ 133.8 mg/ 10470 mg vailable data,	9/m³ 4 9/kg - 9/kg - /l 4 /l 4 1/l 4 9/kg - the classific	hours hours hours hours cation crite ation Cor - - -	Based on Gasoline Based on Gasoline Based on Gasoline Based on Ethanol Based on Ethanol
Va Conclusion/Summary Finitation/Corrosion Product/ingredient name Sasoline Ra Ethanol Ra Skin Eyes Sensitizer	por 50 Inhalat por 50 Derma 50 Oral 50 Inhalat por 50 Inhalat por 50 Oral Not c ecies bbit	tion Rat Rabbit Rat tion Rat tion Rat tion Rat Rat Rat Classified. Bas Result Eyes - Non- irritating to the eyes. Skin - Irritar	Score	analytical >7630 mg Nominal >2000 mg 25000 mg 124.7 mg/ 116.9 mg/ 133.8 mg/ 10470 mg vailable data,	9/m³ 4 9/kg - 9/kg - /l 4 /l 4 1/l 4 9/kg - the classific	hours hours hours cation crite	Gasoline Based on Gasoline Based on Gasoline Based on Ethanol Based on Ethanol
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Va LC Va LC Va LD Conclusion/Summary Irritation/Corrosion Product/ingredient name Sasoline Ra Ethanol Ra Ra Ra Ra Skin Eyes Sensitizer	por 50 Inhalat por 50 Inhalat por 50 Oral Not c ecies bbit bbit	tion Rat tion Rat Rat classified. Bas Result Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	Score	116.9 mg/ 133.8 mg/ 10470 mg vailable data,	/ 4 / 4 j/kg - the classific	hours hours cation crite	Ethanol Based on Ethanol Based on Ethanol Based on Ethanol eria are not met. Remarks Based on Gasoline Based on Gasoline Based on
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Value LD Conclusion/Summary Irritation/Corrosion Product/ingredient Product/ingredient Ra Øasoline Ra Ethanol Ra Skin Eyes Sensitizer	por 50 Oral Not c ecies bbit bbit	Rat classified. Bas Result Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	Score	10470 mg vailable data,	ı/kg − the classific	cation crite	Ethanol Based on Ethanol eria are not met. nc. Remarks Based on Gasoline Based on Gasoline Based on
Conclusion/Summary Irritation/Corrosion Product/ingredient Spe mame Sasoline Ra Ethanol Ra Ethanol Ra Skin Eyes Sensitizer	Not c ecies Ibbit Ibbit	Classified. Bas Result Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	Score	ailable data,	the classific		Ethanol eria are not met. nc. Remarks Based on Gasoline Based on Gasoline Based on
Irritation/Corrosion Product/ingredient Spr name Sasoline Ra Ra Ethanol Ra Ra Ra Skin Eyes Sensitizer	ecies bbit bbit bbit	Result Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	Score				nc. Remarks Based on Gasoline Based on Gasoline Based on
Product/ingredient Spe name Sasoline Ra Ethanol Ra Ra Ra Ra Ra Skin Eyes Sensitizer	bbit bbit bbit	Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	-	Exposure - -	Observa - -	ation Cor - -	Based on Gasoline Based on Gasoline Based on
name Sasoline Ra Ra Ethanol Ra Ra Ra Ra Ra Ra Skin Eyes Sensitizer	bbit bbit bbit	Eyes - Non- irritating to the eyes. Skin - Irritar Eyes - Cornea opacity	-	Exposure	Observa - -	ation Cor - -	Based on Gasoline Based on Gasoline Based on
Ethanol Ra Ethanol Ra Ra Ra Ra Skin Eyes Sensitizer	bbit bbit	irritating to the eyes. Skin - Irritar Eyes - Cornea opacity		-	-	-	Gasoline Based on Gasoline Based on
Ethanol Ra Ra Ra Skin Eyes Sensitizer	bbit	Eyes - Cornea opacity	ıt - -	-	-	-	Gasoline Based on
Ra Ra Ra Skin Eyes Sensitizer		Cornea opacity	-	-	-	-	
Ra Ra Skin Eyes Sensitizer	bbit						
Ra Skin Eyes <u>Sensitizer</u>		Eyes - Iris lesion	-	-	-	-	Based on Ethanol
Skin Eyes <u>Sensitizer</u>	bbit	Eyes - Irritant	-	-	-	-	Based on Ethanol
Eyes <u>Sensitizer</u>	bbit	Skin - Non- irritant to skin.	-	-	-	-	Based on Ethanol
Eyes Sensitizer	Caus	skin irritati	on.				
Sensitizer		ses serious ey		on.			
Product/ingredient name							
		ute of	Spe	cies	Result		Remarks
Gasoline	skir	posure n	Guii	nea pig	Not se	nsitizing	Based on Gasolin
Skin	Not c	lassified. Ba	sed on a	vailable data,	the classifi	ication crit	eria are not met.
<u>Mutagenicity</u>							
Product/ingredient name Gasoline	Test Equivale 476	ent to OECD	Experin Experin	<mark>ment</mark> nent: In vitro	Result Negative		Remarks Based on Gasoline
	470			:: Mammal - unspecified			
	Equivale 471	ent to OECD	Experin	nent: In vitro	Negative		Based on Gasoline
	4/1		Subject mamma	:: Non- alian species			
Product name BP Unlead							
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	EPA 870.5	OPPTS 5395		Experim	ient: In vivo	Negative		ed on Gasoline or condensate
				Subject Cell: Ge	: Unspecified erm			
	Equiv 475	alent to (DECD	Experim	nent: In vivo	Negative	Bas	ed on Gasoline
				Subject Cell: Ge	: Unspecified erm			
Ethanol	Equiv 476	alent to (DECD	Experim	nent: In vitro	Negative	Bas	ed on Ethanol
					: Mammal - unspecified			
	Equiv 473	alent to 0	DECD	Experim	nent: In vitro	Negative	Bas	ed on Ethanol
	475			Subject mamma	: Non- alian species			
	Equiv 478	alent to (DECD	Experim	ient: In vivo	Negative	Bas	ed on Ethanol
				Subject Cell: Ge	: Unspecified			
Conclusion/Summary	M	ay cause	genetio					
Carcinogenicity Product/ingredient name	Test auth Test nur		Sp	ecies	Route	Exposure	Result	Remarks
Sasoline	Equivalen to OECD		M	ouse	Dermal	102 weeks	Negative - Dermal - Unspecified	Based on Gasoline
	Equivalen to OECD	t 451	Ra	at	Inhalation	113 weeks	Negative - Inhalation - Unspecified	Based on Gasoline
Ethanol	Equivalen to OECD	t -	Ra	at	Oral	104 weeks	Negative - Oral - Unspecified	Based on Ethanol
	EPA	OPPT 870.42		ouse	Oral	105 weeks	Positive - Oral - Unspecified	Based on Ethanol
Conclusion/Summary Classification	Ma	ay cause	cancer					
Product/ingredient n	ame O	SHA	IARC	NTP				
Sasoline	-		2B	-				
Toluene	-		3	-				
xylene Benzene	-+		3 1	- Knov	vn to be a hu	man carcinoc	ien	
Ethylbenzene	-		2B	-		-		
naphthalene	-		2B		-	pated to be a	human carcino	ogen.
Descriptors:	OSHA: + - Potential carcinogen	occupation	nal	2A - 1 2B - 1 huma 3 - No carcii	Carcinogenic to Probable huma Possible carcine	n carcinogen. ogen to s a human	NTP: Proven - Known carcinogens. Possible - Reasc to be human can	onably anticipated
Denveductive facilit					nogen.			
Reproductive toxicity		Matawa	-		Developm		eine Deeuk	
Product/ingredient na	ine.	Matern toxicity		ertility	Developm toxin	ient Spe	cies Result	t Exposure
Product name BP Unl	leaded Gas	olines			Prod	uct code	12631	Page: 11/21
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Section 11. Toxic	cological ir	nformatio	n			
Sasoline	-	-	Negative	Rat	Inhalation	14 days
	-	Negative	-	Rat	Inhalation	2 generation
Ethanol	-	-	Negative	Rat	Inhalation	18 days
	-	Positive	-	Rat	Oral	2 generation
Conclusion/Summary	Developmen	t: Suspected o	f damaging the	unborn child.		

Development: Suspected of damaging the unborn child. Fertility: Not classified. Based on available data, the classification criteria are not met. Effects on or via lactation: Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Gasoline	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Ethylbenzene	Category 3	-	Respiratory tract irritation
cyclohexane	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2 Category 1		hearing organs blood system

Aspiration hazard

Name	Result
Gasoline	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Benzene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
cyclohexane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects	
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion	Irritating to mouth, throat and stomach. Aspiration hazard if swallowed harmful or fatal if liquid is aspirated into lungs.

Symptoms related to the physical, chemical and toxicological characteristics

-	Adverse symptoms may include the following: pain or irritation watering redness

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Skin contact	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Inhalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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 effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effect	<u>s</u>
General	Solvent "sniffing" (abuse) or intentional overexposure to vapors can produce serious central nervous system effects, including unconsciousness, and possibly death.
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	May cause genetic defects.
Teratogenicity	Suspected of damaging the unborn child.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates			
Route	ATE value		
Oral	>2000 mg/kg		
Dermal	>2000 mg/kg		
Inhalation (vapors)	>20 mg/l		
Inhalation (dusts and mists)	>5 mg/l		

Other information	Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.
Additional information	Gasoline - Excess exposure to vapors may produce headaches, dizziness, nausea, drowsiness, irritation of eyes, nose and throat and central nervous system depression. Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Inhalation of unleaded gasoline vapors did not produce birth defects in laboratory animals. Ingestion of this material can cause gastrointestinal irritation and diarrhea.
	In a long-term inhalation study of whole unleaded gasoline vapors, exposure-related kidney damage and kidney tumors were observed in male rats. Similar kidney effects

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were not seen in female rats or in mice. At the highest exposure level (2056 ppm), female mice had an increased incidence of liver tumors. Results from subsequent scientific studies have shown that a broad variety of chemicals cause these kidney effects only in the male rat. Further studies have discovered the means by which the physiology of the male rat uniquely predispose it to these effects. Consequently, the Risk Assessment Forum of the Environmental Protection Agency has recognized that these responses are not predictive of a human health hazard. The liver tumors that were increased in the high-dose female mice are likewise of questionable significance because of their high spontaneous occurrence even without chemical exposure and because the rate of their occurrence is accelerated by a broad spectrum of chemicals not commonly considered to be carcinogens (e.g., phenobarbital). Thus, the significance of the mouse liver tumor response in terms of human health is questionable.

Gasoline is a complex mixture of hydrocarbons and contains benzene (typically no more than 2 volume%), toluene, and xylene. Chronic exposure to high levels of benzene has been shown to cause cancer (leukemia) in humans and other adverse blood effects (anemia). Benzene is considered a human carcinogen by IARC, NTP and OSHA. Over exposure to xylene and toluene can cause irritation to the upper respiratory tract, headache and narcosis. Some liver damage and lung inflammation were seen in chronic studies on xylene in guinea pigs but not in rats.

Solvent "sniffing" (abuse) or intentional overexposure to vapors can produce serious central nervous system effects, including unconsciousness, and possibly death.

Gasoline: Additional toxicity information on components.

Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. Studies in occupationally exposed individuals indicate that toluene exposure has been associated with impaired color vision and decreased performance in some neurobehavioral tests.

Prolonged high level exposure to toluene or xylene has caused some degree of hearing loss in experimental animals.

Inhalation of very high concentrations of gasoline vapors and some of its components can result in cardiac sensitization and irregular heartbeats, leading to potentially fatal changes in heart rhythms. Injection of adrenaline-like agents may enhance this effect.

Benzene: Acute toxicity of benzene results primarily from depression of the central nervous system (CNS). Inhalation of concentrations over 50 ppm can produce headache, lassitude, weariness, dizziness, drowsiness, or excitation. Exposure to very high levels can result in unconsciousness and death.

Benzene: Long-term overexposure to benzene has been associated with certain types of leukemia in humans. In addition, the International Agency for Research on Cancer (IARC), the National Toxicology Program, and OSHA consider benzene to be a human carcinogen. Chronic exposures to high levels of benzene have been reported to cause adverse blood effects including anemia. Benzene exposure can occur by inhalation and absorption through the skin.

Inhalation and forced feeding studies of benzene in laboratory animals have produced a carcinogenic response in a variety of organs, including possibly leukemia, other adverse effects on the blood, chromosomal changes and some effects on the immune system. Exposure to benzene at levels up to 300 ppm did not produce birth defects in animal studies; however, exposure to higher dosage levels resulted in a reduction of body weight of the rat pups (fetotoxicity). Changes in the testes have been observed in mice exposed to benzene at 300 ppm, but reproductive performance was not altered in rats exposed to benzene at the same level. Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material.

Toluene: Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material. Deliberate inhalation of high concentrations of toluene has been linked to damage of the brain, liver and kidney. Inhalation of very high concentrations of toluene, such as in cases of solvent abuse, has resulted in sudden death which may be a result

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of cardiac arrhythmia or central nervous system depression. Mental and/or growth retardation has been reported in children of women who deliberately inhale toluene during pregnancy (usually at thousands of ppm). Fetal developmental toxicity was observed when pregnant rats were exposed to toluene at levels of 1500 ppm. Maternal toxicity was also observed at this concentration. Prolonged, high level exposure to toluene in laboratory animals has resulted in hearing loss. Exposure studies in rats have resulted in adverse effects on the kidney, liver and central nervous system. Studies in occupationally exposed individuals indicate that toluene exposure has been associated with impaired color vision and decreased performance in some neurobehavioral tests. There are occupational studies which report an association between inhalation exposure to toluene and adverse effects on reproduction including spontaneous abortion. The methodology of these studies and the reliability of the results have been questioned. In a two-generation study in rats, inhalation of toluene at levels up to 2000 ppm did not produce adverse effects on fertility or reproductive performance.

Xylenes: Xylene has been reported to cause central nervous system effects at concentrations above the recommended exposure limit. Xylene vapor becomes irritating at relatively high levels. In one study, eye irritation was reported at exposures of 460 ppm and in one person at 230 ppm after 15 minutes. In another study, no one reported eyes, nose and throat irritation at mixed xylene exposures up to 230 ppm for 30 minutes. Dermal LD50 is expected to be greater than 10g/kg in rabbits, based on test results from similar materials.

Mixed xylenes caused slight hearing loss in rats exposed to 800 ppm in the air for 14 hours/day for six weeks. There is no information available for lower concentrations; however, similar chemicals that have caused these hearing effects at similar concentrations have not caused effects at lower concentrations.

Pregnant animals exposed to xylene or its isomers have been reported to cause development toxicity in rodents when exposed by inhalation. The developmental effects observed consisted of delayed development and minor skeletal variations, but no malformations. Because of the high exposure levels used in these studies, we do not believe that these results imply an increased risk of reproductive toxicity to workers exposed to xylene levels at or below the exposure limits.

Xylene and its isomers are not genotoxic.

Technical grade xylene has been tested in a National Toxicology Program carcinogenicity study in rats and mice dosed orally for two years. There was no evidence of carcinogenicity.

Ethylbenzene: The National Toxicology Program (NTP) conducted a 13-week inhalation study with male and female rats and mice at exposure concentrations ranging from 100 to 1000 ppm ethylbenzene. No rats or mice died during the study. Kidney, liver, and lung weights were increased in the exposed rats, while weight increases were observed only in the livers of exposed mice. Treatment-related histopathologic changes were not observed in any tissues of rats and mice.

NTP also exposed male and female rats and mice by inhalation to 0, 75, 250, or 750 ppm ethylbenzene for 2 years. There was a statistically significant increase in the number of kidney tumors in male and female rats at 750 ppm. There were also increased incidences of lung tumors in male mice and liver tumors in female mice that were statistically significant at 750 ppm. Except for the male rat kidney tumors, the incidence of the tumors were within the range observed for non-exposed animals from other studies conducted by NTP. The significance of these findings to humans is unknown. Ethylbenzene is not genotoxic. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and found it to be possibly carcinogenic to humans (Group 2B).

Ethylbenzene is not genotoxic.

This product contains trimethylbenzenes. These compounds cause irritation to the eyes, nose and respiratory tract. Repeated dermal exposure can defat and irritate the skin. Inhalation may cause dizziness and drowsiness. Studies in laboratory animals with mixtures of C9 aromatic hydrocarbons produced adverse effects on development such as increased fetal mortality, reduced fetal weight, and delayed ossification at high exposure concentrations. Effects were reduced if exposure was terminated prior to delivery. There was no evidence of reproductive toxicity.

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Naphthalene has been reported to cause developmental toxicity in mice after oral exposure to relatively high dose levels, but developmental toxicity was not observed in NTP (National Toxicology Program) sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in glucose-6-phosphate dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene exposure has been associated with cataracts in animals and humans.

Ethanol - Human data: In humans excessive consumption of alcoholic beverages during pregnancy is associated with the induction of Fetal Alcohol Syndrome in the offspring. Reduced birth weight and physical and mental defects occur. There is no evidence that such effects might be caused by exposures other than direct ingestion of alcoholic drinks. In humans high lifetime consumption of alcoholic beverages can be associated with certain cancers and effects on the liver. There is no evidence that these can be caused by exposure other than direct ingestion of alcoholic drinks.

Section 12. Ecological information

Toxicity

No testing has been performed by the manufacturer.

Product/ingredient name	Species	Test/Result	Exposure	Effects	Remarks
Gasoline	Micro-organism	Acute EC50 15.41 mg/l Nominal Fresh water	40 hours	growth inhibition	-
	Algae	Acute EL50 3.1 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Gasoline
	Algae	Acute EL50 3.7 mg/l Nominal Fresh water	96 hours	(growth rate)	Based on Gasoline
	Daphnia	Acute EL50 4.5 mg/l Nominal Fresh water	48 hours	Mobility	Based on straight- run light gasoline
	Fish	Acute LL50 10 mg/l Nominal Fresh water	96 hours	Mortality	Based on Naphtha (petroleum), isomerisation
	Fish	Acute LL50 8.2 mg/l Nominal Fresh water	96 hours	Mortality	Based on Naphtha (petroleum), light alkylate
	Algae	Acute NOELR 0.5 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Gasoline
	Daphnia	Acute NOELR 0.5 mg/l Nominal Fresh water	48 hours	Mobility	Based on Straight run gas oil
	Daphnia	Chronic EL50 10 mg/l Nominal Fresh water	21 days	Reproduction	Based on Naphtha (petroleum), light alkylate
	Daphnia	Chronic EL50 >40 mg/l Nominal Fresh water	21 days	Mobility	Based on Naphtha (petroleum), light
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Fish Chronic EL50 10 mg/l Nominal Fresh water 21 days Reproduction Based on: Night Maphtha Jorden Streten Maphtha Jorden M		0				alkylate
mg/l Nominal Fresh watermg/l Nominal Sersh waterNaphtha (petroleum), light alkylateDaphniaChronic NOELR 16 mg/l Nominal Fresh water21 daysReproductionBased on Naphtha (petroleum), light alkylateDaphniaChronic NOELR 16 mg/l Nominal Fresh water21 daysMobilityBased on Naphtha (petroleum), light alkylateFishChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMotalityBased on Naphtha (petroleum), light alkylateFishChronic NOELR 2.6 mg/l Nominal 2.6 mg/l Nominal Fresh water14 daysMortalityBased on Naphtha (petroleum), light catalitic reformed across between speciesFishChronic NOELR 2.6 mg/l Nominal Fresh water21 daysReproductionNaphtha (petroleum), light catalitic reformed across between speciesEthanolAlgaeChronic PNEC >2.0.4 mg/kgAlgaeEC50 675 mg/l ang/l4 days-Based on Ethanol mg/lAquatic plantsChronic LC50 5102 alf48 hours-Based on Ethanol across between across between across between ang/lFishAcute LC50 153 alf96 hoursDaphniaChronic LC50 2.1 alf10 daysDaphniaChronic LC50 2.6 alf9 days-Based on Ethanol across between across between acr		Fish	mg/l Nominal	21 days	Reproduction	Naphtha (petroleum), light alkylate; read across between
2.6 mg/l Nominal Fresh water Naphtha (petroleum), light alkylate Daphnia Chronic NOELR 16 mg/l Nominal Fresh water 21 days Mobility Based on Naphtha (petroleum), light alkylate Fish Chronic NOELR 2.6 mg/l Nominal Fresh water 14 days Mortality Based on Naphtha (petroleum), light alkylate Fish Chronic NOELR 2.6 mg/l Nominal Fresh water 14 days Mortality Based on Naphtha (petroleum), light alkylate; read across between species soil, plants Chronic PNEC -0.4 mg/kg - - Ethanol Algae EC50 675 mg/l 4 days - Based on Ethanol across between species Aquatic plants CS0 4432 mg/l mg/l 7 days - Based on Ethanol across between species Daphnia Acute LC50 5012 48 hours - Based on Ethanol g/l Daphnia Acute LC50 153 96 hours - Based on Ethanol g/l Daphnia Acute LC50 14.2 96 hours - Based on Ethanol g/l Daphnia Chronic LC50 2 10 days - Based on Ethanol mg/l Toxic to aquetatic life with long lasting effects. Toxic to aquetatic life with long lasting effects. -		Fish	mg/l Nominal	14 days	Mortality	Naphtha (petroleum), light
16 mg/l Nominal Fresh water Naphtha (petroleum), light alkylate Naphtha (petroleum), light alkylate Fish Chronic NOELR 2.6 mg/l Nominal Fresh water 14 days Mortality Based on Naphtha (petroleum), light catalytic reformed Fish Chronic NOELR 2.6 mg/l Nominal Fresh water 21 days Reproduction Based on: Naphtha (petroleum), light alkylate; reed across between species soil, plants Chronic PNEC >0.4 mg/kg - - - Ethanol Algae EC50 675 mg/l 4 days - Based on Ethanol across between species Ethanol Algae EC50 4732 mg/l 7 days - Based on Ethanol across between species Ethanol Aquatic plants EC50 4132 mg/l 7 days - Based on Ethanol across between species Daphnia Acute LC50 153 g/l 96 hours - Based on Ethanol mg/l Fish Acute LC50 14.2 g/l 96 hours - Based on Ethanol mg/l Daphnia Chronic LC50 2 g/l 10 days - Based on Ethanol mg/l Toxic to acrutic life with long traget 9 days - Based on Ethanol Daphnia Chronic LC50 9.6 mg/l 9 days -		Daphnia	2.6 mg/l Nominal	21 days	Reproduction	Naphtha (petroleum), light
2.6 mg/l Nominal Fresh water Naphtha (petroleum), light catalytic reformed Fish Chronic NOELR 2.6 mg/l Nominal Fresh water 21 days Reproduction Based on: Naphtha (petroleum), light alkylate; read across between species soil, plants Chronic PNEC >0.4 mg/kg - - - Ethanol Algae EC50 675 mg/l 4 days - Based on Ethanol Aquatic plants EC50 4432 mg/l 7 days - Based on Ethanol Daphnia Acute LC50 5012 48 hours - Based on Ethanol Fish Acute LC50 14.2 96 hours - Based on Ethanol Daphnia Chronic LC50 2 10 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol mg/l Toxic to =utic life with long lasting effects. - Expected to be biodegradable.		Daphnia	16 mg/l Nominal	21 days	Mobility	Naphtha (petroleum), light
2.6 mg/l Nominal Fresh water Naphtha (petroleum), light alk/ylate; read across between species soil, plants Chronic PNEC >0.4 mg/kg - - Ethanol Algae EC50 675 mg/l 4 days - Based on Ethanol Aquatic plants EC50 4432 mg/l 7 days - Based on Ethanol Aquatic plants EC50 4432 mg/l 7 days - Based on Ethanol Daphnia Acute LC50 5012 48 hours - Based on Ethanol Fish Acute LC50 153 96 hours - Based on Ethanol Qi/l Qi/l 10 days - Based on Ethanol Daphnia Chronic LC50 2 10 days - Based on Ethanol Qi/l Daphnia Chronic LC50 9.6 9 days - Based on Ethanol mg/l Toxic to autic life with long lasting effects. - Based on Ethanol - Paphnia Chronic LC50 9.6 9 days - Based on Ethanol - mg/l Toxic to autic life with long lasting effects. - - - -		Fish	2.6 mg/l Nominal	14 days	Mortality	Naphtha (petroleum), light
Ethanol Algae EC50 675 mg/l 4 days - Based on Ethanol Aquatic plants EC50 4432 mg/l 7 days - Based on Ethanol Daphnia Acute LC50 5012 48 hours - Based on Ethanol Fish Acute LC50 153 96 hours - Based on Ethanol Fish Acute LC50 14.2 96 hours - Based on Ethanol Daphnia Chronic LC50 2 10 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol Toxic t = u=tric life with long leftects. - Based on Ethanol Persistence and degradablity Toxic t = u=tric life with long leftects. - Based on Ethanol		Fish	2.6 mg/l Nominal	21 days	Reproduction	Naphtha (petroleum), light alkylate; read across between
Aquatic plants EC50 4432 mg/l 7 days - Based on Ethanol Daphnia Acute LC50 5012 48 hours - Based on Ethanol Fish Acute LC50 153 96 hours - Based on Ethanol Fish Acute LC50 14.2 96 hours - Based on Ethanol Joaphnia Chronic LC50 14.2 96 hours - Based on Ethanol Daphnia Chronic LC50 2 10 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol Mg/l Toxic to aquite life with long lasting effects. - Based on Ethanol Persistence and degradability Expected to be biodegradable. - -		soil, plants		-	-	-
Daphnia Acute LC50 5012 48 hours - Based on Ethanol Fish Acute LC50 153 96 hours - Based on Ethanol Fish Acute LC50 14.2 96 hours - Based on Ethanol Fish Acute LC50 14.2 96 hours - Based on Ethanol Daphnia Chronic LC50 2 10 days - Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol Mg/l Conclusion/Summary Toxic to aquatic life with long lasting effects. - Based on Ethanol	Ethanol	Algae	EC50 675 mg/l	4 days	-	Based on Ethanol
Fish Acute LC50 153 g6 hours - galandi g/l Based on Ethanol g/l Fish Acute LC50 14.2 g6 hours - galandi g/l Based on Ethanol g/l Daphnia Chronic LC50 2 l0 days - galandi g/l Based on Ethanol g/l Daphnia Chronic LC50 9.6 g days - galandi g/l Based on Ethanol g/l Conclusion/Summary Toxic to aquatic life with long lasting effects. Based on Ethanol g/l		Aquatic plants	EC50 4432 mg/l	7 days	-	Based on Ethanol
g/l Fish Acute LC50 14.2 g/l 96 hours - Based on Ethanol Daphnia Chronic LC50 2 g/l 10 days - Based on Ethanol Daphnia Chronic LC50 9.6 g/g/l 9 days - Based on Ethanol Conclusion/Summary Toxic to autic life with long lasting effects. - Based on Ethanol		Daphnia		48 hours	-	Based on Ethanol
g/l Daphnia Chronic LC50 2 10 days - Based on Ethanol mg/l Based on Ethanol Daphnia Chronic LC50 9.6 9 days - Based on Ethanol mg/l Based on Ethanol Conclusion/Summary Toxic to aquatic life with long lasting effects. Sector S		Fish		96 hours	-	Based on Ethanol
mg/l Daphnia Chronic LC50 9.6 9 days - Based on Ethanol mg/l Conclusion/Summary Toxic to aquatic life with long lasting effects. Persistence and degradability Expected to be biodegradable.		Fish		96 hours	-	Based on Ethanol
Mg/l Conclusion/Summary Toxic to aquatic life with long lasting effects. Persistence and degradability Expected to be biodegradable.		Daphnia		10 days	-	Based on Ethanol
Persistence and degradability Expected to be biodegradable.		Daphnia		9 days	-	Based on Ethanol
Expected to be biodegradable.	Conclusion/Summary	Toxic to a	-	lasting effects.		
		-				
Frouucomgreatent fame rest Result Remarks	Product/ingredient nam		Result		Remarks	

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Section 12. Ecological information						
Ethanol	EPA	95 % - Rea	adily - 15 days	Based on	Ethanol	
	EPA	84 % - Rea	adily - 20 days	Based on	Ethanol	
	EPA	74 % - Readily - 5 days Based on Ethanol		Ethanol		
	EPA	74 % - Rea	adily - 10 days	Based on	Ethanol	
Conclusion/Summary	Not available.					
Product/ingredient name	Aquatic half-life		Photolysis -		Biodegradability Inherent	

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Mobility in soil	
Soil/water partition coefficient (Koc)	Not available.
Mobility	Spillages may penetrate the soil causing ground water contamination.
Other adverse effects	No known significant effects or critical hazards.
Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Voluene	108-88-3	Listed	U220
Xylene	1330-20-7	Listed	U239
Benzene (I,T)	71-43-2	Listed	U019
Cyclohexane (I)	110-82-7	Listed	U056

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	-	-	-	-
UN proper shipping name	See: Special precautions for user RQ (Benzene, xylene)	See: Special precautions for user	See: Special precautions for user. Marine pollutant	See: Special precautions for user

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Transport hazard class(es)	3			3
Packing group	11	11	П	II
Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	Reportable quantity 263.16 lbs / 119.47 kg [42.082 gal / 159.3 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.
epoolal precadin			rmined at the time of shi Shipping Name based o	-
Transport in bulk to IMO instrumer	Select produc Ethano Ethano	UN number and Proper t: I 0 - 10%: UN1203 GAS	Shipping Name based of SOLINE THANOL AND GASOLIN	n the ethanol content of the NE MIXTURE es apply for bulk shipments
Transport in bulk to IMO instrumer	Select produc Ethano Ethano k according Proper nts	UN number and Proper t: I 0 - 10%: UN1203 GAS I >10 - 15%: UN3475 E • shipping name	Shipping Name based of SOLINE THANOL AND GASOLIN MARPOL Annex 1 rul sea.	n the ethanol content of the NE MIXTURE es apply for bulk shipments
Transport in bulk to IMO instrumer Section 15 U.S. Federal regu United States ir (TSCA 8b)	Select produc Ethano Ethano caccording Proper nts CREGUIATORY I	UN number and Proper t: I 0 - 10%: UN1203 GAS I >10 - 15%: UN3475 E • shipping name	Shipping Name based of SOLINE THANOL AND GASOLIN MARPOL Annex 1 rul sea. Category: gasoline ar	n the ethanol content of the NE MIXTURE es apply for bulk shipments
Transport in bulk to IMO instrumer Section 15 U.S. Federal regu United States ir (TSCA 8b) SARA 302/304	Select produc Ethano Ethano caccording Proper nts CREGUIATORY I	UN number and Proper t: I 0 - 10%: UN1203 GAS I >10 - 15%: UN3475 E shipping name	Shipping Name based of SOLINE THANOL AND GASOLIN MARPOL Annex 1 rul sea. Category: gasoline ar	n the ethanol content of the NE MIXTURE es apply for bulk shipments
Transport in bulk to IMO instrumer Section 15 U.S. Federal regu United States ir (TSCA 8b) SARA 302/304	Select product Ethano Ethano Acaccording Proper Ints Regulatory in Ulations Inventory All com	UN number and Proper t: I 0 - 10%: UN1203 GAS I >10 - 15%: UN3475 E shipping name	Shipping Name based of SOLINE THANOL AND GASOLIN MARPOL Annex 1 rul sea. Category: gasoline ar	n the ethanol content of the NE MIXTURE es apply for bulk shipments
Transport in bulk to IMO instrumen Section 15 U.S. Federal regu United States in (TSCA 8b) SARA 302/304 Composition/in	Select product Ethano Ethano Ethano Select Ethano Proper Ints Select Ethano Proper Ints Select Ethano Proper Ints Select Ethano Ethano Ints Select Ethano Ethano Ints Select Ethano Ints Select Ints S	UN number and Proper t: I 0 - 10%: UN1203 GAS I >10 - 15%: UN3475 E shipping name nformation uponents are active or exact mate MABLE LIQUIDS - Category 2 RITATION - Category 2 CELL MUTAGENICITY NOGENICITY - Category 2 CELL MUTAGENICITY NOGENICITY - Category 1 CELL MUTAGENICITY NOGENICITY - Category 2 CELL MUTAGENICITY NOGENICITY - Category 1 CELL MUTAGENICITY 1 CELL MUTAGENICITY 1 CELL MUTAGENICITY 1 CEL	Shipping Name based of SOLINE THANOL AND GASOLIN MARPOL Annex 1 rul sea. Category: gasoline ar category: gasoline ar category 1 2 A - Category 1 y 1A Category 2 OXICITY (SINGLE EXPO	n the ethanol content of the NE MIXTURE es apply for bulk shipments

Section 15. Regulatory information

	Product name	CAS number	Concentration
Form R - Reporting	Toluene	108-88-3	4 - 11
requirements	xylene	1330-20-7	4 - 11
	Benzene	71-43-2	0 - 3.8
	1,2,4-Trimethylbenzene	95-63-6	0 - 3
	Ethylbenzene	100-41-4	0 - 2
	cyclohexane	110-82-7	0 - 1
	Naphthalene	91-20-3	0 - 0.5
Supplier notification	Toluene	108-88-3	4 - 11
	xylene	1330-20-7	4 - 11
	Benzene	71-43-2	0 - 3.8
	1,2,4-Trimethylbenzene	95-63-6	0 - 3
	Ethylbenzene	100-41-4	0 - 2
	cyclohexane	110-82-7	0 - 1
	Naphthalene	91-20-3	0 - 0.5

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	Phe following components are listed: ETHYL ALCOHOL; TOLUENE; XYLENE; BENZENE; PSEUDOCUMENE; ETHYL BENZENE; CYCLOHEXANE
New Jersey	Phe following components are listed: ETHYL ALCOHOL; TOLUENE; XYLENES; BENZENE; PSEUDOCUMENE; ETHYL BENZENE; CYCLOHEXANE; NAPHTHALENE
Pennsylvania	Phe following components are listed: GASOLINE; ETHANOL; BENZENE, METHYL-; BENZENE, DIMETHYL-; BENZENE; PSEUDOCUMENE; BENZENE, ETHYL-; CYCLOHEXANE
California Prop. 65	Other Prop 65 chemicals will result under certain conditions from the use of this material. For example, burning fuels produces combustion products including carbon monoxide, a Prop 65 reproductive toxin.

MARNING: This product can expose you to chemicals including Benzene, Benzene and Benzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Gasoline, Ethylbenzene, Naphthalene, Ethylbenzene, cumene, Ethylbenzene, Ethylbenzene, cumene, Naphthalene, Naphthalene, Naphthalene, acetaldehyde, Furan, Propylene oxide and Styrene, which are known to the State of California to cause cancer, and Toluene, Toluene, Toluene and Toluene, 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.

Other regulations

Australia inventory (AIIC)	At least one component is not listed.
Canada inventory	Not determined.
China inventory (IECSC)	At least one component is not listed.
Japan inventory (CSCL)	At least one component is not listed.
Korea inventory (KECI)	At least one component is not listed.
Philippines inventory (PICCS)	At least one component is not listed.
Taiwan Chemical Substances Inventory (TCSI)	At least one component is not listed.
REACH Status	For the REACH status of this product please consult your company contact, as identified in Section 1.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Section 16. Other information

Date of issue/Date of revision	10/27/2022.
Date of previous issue	02/23/2022.
Prepared by	Product Stewardship
Key to abbreviations	 ACGIH = American Conference of Industrial Hygienists ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS Number = Chemical Abstracts Service Registry Number 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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OEL = Occupational Exposure Limit SDS = Safety Data Sheet STEL = Short term exposure limit TWA = Time weighted average UN = United Nations UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-45-6, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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