SAFETY DATA SHEET

95 Octane Petrol (Premium)



Section 1. Identification

Product name 95 Octane Petrol (Premium)

Product code 0000003076 **SDS no.** 0000003076

used as a solvent nor cleaning agent.

Product type Liquid.

Supplier BP Oil New Zealand Limited

Ground floor and 1st floor

Watercare House 73 Remuera Road Newmarket Auckland New Zealand

Phone 09 969 9300 Tel: 0800 805 111

Emergency telephone number

New Zealand National Poisons

Centre

0800 764 766

OTHER PRODUCT INFORMATION

Technical Helpline 09 623 9451

Section 2. Hazards identification

HSNO Classification 3.1 - FLAMMABLE LIQUIDS - Category A

6.3 - SKIN IRRITATION - Category B 6.7 - CARCINOGENICITY - Category B

6.1 - ACUTE TOXICITY (aspiration) (oral) - Category E

9.1 - AQUATIC ECOTOXICITY - Category B

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

GHS label elements

Signal word Danger

Hazard statements Extremely flammable liquid and vapour.

Causes mild skin irritation. Suspected of causing cancer.

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Keep out of reach of children. If medical advice is needed: Have product container or label at hand.

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Section 2. Hazards identification

Response Collect spillage. Immediately call a POISON CENTER or doctor/physician. IF

SWALLOWED: Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or

concerned: Get medical advice/attention.

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

Disposal Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Symbol







Other hazards which do not result in classification

Substance/mixture

Not available.

Section 3. Composition/information on ingredients

Mixture

Ingredient name	%	CAS number
Sasoline	< 90	86290-81-5
Benzene	< 1	71-43-2
diisopropyl ether	< 1	108-20-3
Ethanol	< 1	64-17-5
tert-butyl methyl ether(MTBE)	< 0.2	1634-04-4

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.

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

Section 4. First aid measures

Description of necessary first aid measures

Inhalation If inhaled, remove to fresh air. Get medical attention.

IngestionDo not induce vomiting. Get medical attention immediately. 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.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Check for and remove any contact lenses. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if symptoms

occur.

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

Notes to physicianTreatment 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.

Protection of first-aidersNo action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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Section 5. Firefighting measures

Extinguishing media

Suitable In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or

spray.

Not suitable Do not use water jet.

Specific hazards arising

from the chemical will occur and the container may burst, with the risk of a subsequent explosion.

Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Liquid will float and may reignite on surface of water.

Hazardous combustion Combustion products may include the following:

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Hazchem code 3YE

Special precautions for firefighters

products

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

Extremely flammable liquid and vapour. In a fire or if heated, a pressure increase

Special protective equipment for fire-fighters

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

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Eliminate all ignition sources. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, 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

Avoid dispersal of spilt 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. Collect spillage. 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 absorbents. If possible, large spillages in open waters should be contained with 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 material for containment and cleaning up

Small spill

Eliminate all ignition sources. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. 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.

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Section 6. Accidental release measures

Large spill

Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Approach the 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 noncombustible, 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. Contaminated absorbent material may pose the same hazard as the spilt 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 safe handling

Conditions for safe storage, including any incompatibilities

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not swallow. Never siphon by mouth. Avoid exposure - obtain special instructions before use. Avoid breathing vapour or mist. Use only with adequate ventilation. Avoid release to the environment. Do not enter storage areas and confined spaces unless adequately ventilated. Wear appropriate respirator when ventilation is inadequate. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container. Aspiration hazard if swallowed. Can enter lungs and cause damage. See also Section 8 for additional information on hygiene measures.

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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Light hydrocarbon vapours 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 vapour 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 to any tanks or other confined space requires a full risk assessment and appropriate control measures to be put in place in conformance with appropriate regulations and industry practice on confined space entry. 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/vapour mixtures may form at ambient temperature. If product comes into contact with hot surfaces, or leaks occur from pressurised fuel pipes, the vapour 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.

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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/m³ 8 hours. Issued/Revised: 5/1996 STEL: 500 ppm 15 minutes. Issued/Revised: 5/1996 STEL: 1480 mg/m³ 15 minutes. Issued/Revised: 5/1996
Benzene	NZ OSH (New Zealand). Absorbed through skin. WES-STEL: 2.5 ppm 15 minutes. Issued/ Revised: 9/2010 WES-TWA: 1 ppm 8 hours. Issued/Revised: 9/2010
diisopropyl ether	NZ OSH (New Zealand). WES-STEL: 1300 mg/m³ 15 minutes. Issued/Revised: 1/1994 WES-STEL: 310 ppm 15 minutes. Issued/ Revised: 1/1994 WES-TWA: 1040 mg/m³ 8 hours. Issued/ Revised: 1/1994 WES-TWA: 250 ppm 8 hours. Issued/ Revised: 1/1994
Ethanol	NZ OSH (New Zealand). WES-TWA: 1880 mg/m³ 8 hours. Issued/ Revised: 1/1994 WES-TWA: 1000 ppm 8 hours. Issued/ Revised: 1/1994

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. 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. 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

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Section 8. Exposure controls/personal protection

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 protection Hand protection Chemical splash goggles.

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 gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

Recommended: Nitrile gloves. The presence of aromatic hydrocarbons in the product will significantly shorten the length of time that nitrile gloves will provide protection. Do not re-use nitrile gloves if exposed to aromatic hydrocarbons. Gloves made from fluoroelastomer resistant to hydrocarbons and a wide range of chemicals.

Wear a chemically resistant multi-layer laminate inner glove inside an outer nitrile glove. The purpose of the outer glove is to protect the inner glove from cuts and mechanical damage.

Skin protection

Use of protective clothing is good industrial practice. 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 from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static. When there is a risk of ignition wear inherently fire resistant protective clothes and gloves. 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. 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. 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.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. 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/vapour/aerosol/particulates) that may arise when handling the product. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

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Section 9. Physical and chemical properties

Appearance

Physical state Liquid.

Colour Pale colour. Light Yellow. to Orange.

Odour Gasoline [Strong]
pH Not available.

Melting point Not available.

Boiling point 30 to 210°C (86 to 410°F)

Drop Point Not available.

Flash point Closed cup: <-40°C (<-40°F)

Auto-ignition temperature >350°C (>662°F)

Lower and upper explosive (flammable) limits Lower: 1.4%

Upper: 7.6%

Vapour density Not available.

Density 750 kg/m³ (0.75 g/cm³) **Solubility** insoluble in water.

Viscosity Kinematic: 0.4 to 0.55 mm²/s (0.4 to 0.55 cSt) at 40°C

Section 10. Stability and reactivity

Chemical stability The product is stable.

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

reactions Under normal conditions of storage and use, hazardous polymerisation will not

occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame). Avoid excessive heat.

Incompatible materialsReactive or incompatible with the following materials:

oxidising materials

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products

products should not be produced.

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Section 11. Toxicological information

Information on likely routes of exposure

Inhalation Vapours may cause drowsiness and dizziness.

Irritating to mouth, throat and stomach. Aspiration hazard if swallowed -- harmful or

fatal if liquid is aspirated into lungs.

Skin contact Causes mild skin irritation.

Eye contact

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo

Ingestion Adverse symptoms may include the following:

nausea or vomiting

Skin contact Adverse symptoms may include the following:

irritation redness

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Acute toxicity

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Product/ingredient name	Test	Species	Result	Exposure	Remarks
Sasoline	LC50 Inhalation Vapour	Rat	>7630 mg/m³ Nominal	4 hours	Based on Gasoline
	LC50 Inhalation Vapour	Rat	>5610 mg/m³ analytical	4 hours	Based on Gasoline
	LD50 Dermal	Rabbit	>2000 mg/kg	-	Based on Gasoline
	LD50 Oral	Rat	>5000 mg/kg	-	Based on Gasoline
Ethanol	LC50 Inhalation Vapour	Rat	124.7 mg/l	4 hours	Based on Ethanol
	LC50 Inhalation Vapour	Rat	116.9 mg/l	4 hours	Based on Ethanol
	LC50 Inhalation Vapour	Rat	133.8 mg/l	4 hours	Based on Ethanol
	LD50 Oral	Rat	10470 mg/kg	-	Based on Ethanol

Conclusion/Summary

Not available.

Irritation/Corrosion

Product/ingredient name	Species	Result	Score	Exposure	Observation	Conc.	Remarks
Sasoline	Rabbit	Skin - Irritant	-	-	-	-	Based on Gasoline
	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on Gasoline
Ethanol	Rabbit	Skin - Non- irritant to skin.	-	-	-	-	Based on Ethanol
	Rabbit	Eyes - Cornea opacity	-	-	-	-	Based on Ethanol
	Rabbit	Eyes - Iris lesion	-	-	-	-	Based on Ethanol
	Rabbit	Eyes - Irritant	-	-	-	-	Based on Ethanol

Sensitisation

Product/ingredient name	Route of exposure	Species	Result	Remarks
Sasoline	skin	Guinea pig	Not sensitising	Based on Gasoline

Potential chronic health effects

General No known significant effects or critical hazards.

Inhalation May be harmful by inhalation after often repeated exposure. Vapour, mist or fume

may irritate the nose, mouth and respiratory tract. Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system

effects, including unconsciousness, and possibly death.

Ingestion Not applicable.

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Not applicable. **Skin contact Eye contact** Not applicable.

Carcinogenicity Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure. May cause cancer Exposure to benzene may result in effects to the hematopoietic system causing blood disorders including anaemia and leukaemia. Benzene is classified by EEC as a category 1 carcinogen - substances known to be

carcinogenic to man.

IARC assessment: benzene - carcinogenic to humans (Group 1)

Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. **Fertility effects** No known significant effects or critical hazards.

Carcinogenicity

Product/ingredie	nt name Test		Species	Result	Exposure
Sasoline	Rat	Inhalation	113 weeks	Negative Inhalation - Unspecified	Based on Gasoline
	Mouse	Dermal	102 weeks	Negative Dermal - Unspecified	Based on Gasoline
Ethanol	Mouse	Oral	105 weeks	Positive Oral - Unspecified	Based on Ethanol
	Rat	Oral	104 weeks	Negative Oral - Unspecified	Based on Ethanol

Conclusion/Summary

May cause cancer

Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
⊘ asoline	Equivalent to OECD 476	Experiment: In vitro	Negative	Based on Gasoline
		Subject: Mammal - species unspecified		
	Equivalent to OECD 471	Experiment: In vitro	Negative	Based on Gasoline
		Subject: Non- mammalian species		
	EPA OPPTS 870. 5395	Experiment: In vivo	Negative	Based on Gasoline vapour condensate
	0000	Subject: Unspecified Cell: Germ		vapour condensate
	Equivalent to OECD 475	Experiment: In vivo	Negative	Based on Gasoline
		Subject: Unspecified Cell: Germ		
Ethanol	Equivalent to OECD 476	Experiment: In vitro	Negative	Based on Ethanol
	470	Subject: Mammal - species unspecified		
	Equivalent to OECD 473	Experiment: In vitro	Negative	Based on Ethanol
		Subject: Non-		

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mammalian species

Equivalent to OECD Experiment: In vivo

Negative

Based on Ethanol

Subject: Unspecified

Cell: Germ

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Result	Exposure
Sasoline	-	Negative	-	Rat	Inhalation	2 generation
	-	-	Negative	Rat	Inhalation	14 days
Ethanol	-	Positive	-	Rat	Oral	2 generation
	-	-	Negative	Rat	Inhalation	18 days

Conclusion/Summary

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

Fertility: Not classified. Based on available data, the classification criteria are not

Effects on or via lactation: Not classified. Based on available data, the classification criteria are not met.

Aspiration hazard

Name

Sasoline

Other adverse symptoms

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 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.

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

Gasoline as a mixture is classified as a 2B (possible human) carcinogen by IARC.

Gasoline engine exhaust is classified as possibly carcinogenic to humans by IARC (2B). This classification is based primarily on animal and in vitro studies of gasoline engine exhaust condensates/extracts. Studies of the gaseous exhaust stream in animals did not provided sufficient evidence for classification as a carcinogen.

Section 12. Ecological information

Ecotoxicity

Inherently biodegradable. Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name	Species	Result/Test	Exposure	Effects	Remarks
Sasoline	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 alkylate
	Fish	Chronic EL50 10 mg/l Nominal	21 days	Reproduction	Based on: Naphtha

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Section 12. Ecological information Fresh water (petroleum), light alkylate; read across between species Fish Chronic LL50 5. 14 days Mortality Based on 2 mg/l Nominal Naphtha Fresh water (petroleum), light catalytic reformed Daphnia Chronic NOELR 21 days Reproduction Based on 2.6 mg/l Nominal Naphtha Fresh water (petroleum), light alkylate Chronic NOELR Daphnia 21 days Mobility Based on 16 mg/l Nominal Naphtha Fresh water (petroleum), light alkylate Fish Chronic NOELR 14 days Mortality Based on 2.6 mg/l Nominal Naphtha (petroleum), light Fresh water catalytic reformed Fish Chronic NOELR 21 days Reproduction Based on: 2.6 mg/l Nominal Naphtha Fresh water (petroleum), light alkylate; read across between species soil, plants Chronic PNEC >0.4 mg/kg Ethanol EC50 675 mg/l Based on Algae 4 days Ethanol Aquatic plants EC50 4432 mg/l Based on 7 days Ethanol Daphnia Acute LC50 48 hours Based on 5012 mg/l Ethanol Based on Fish Acute LC50 153 96 hours Ethanol g/l Fish Acute LC50 14.2 96 hours Based on Ethanol g/l Daphnia Chronic LC50 2 Based on 10 days

Persistence and degradability

The biodegradability of this material has not been determined.

Daphnia

mg/l

6 mg/l

Chronic LC50 9.

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Ethanol

Based on

Ethanol

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9 days

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Product/ingredient name	Test	Result	Remarks
E thanol	EPA	95 % - Readily - 15 days	Based on Ethanol
	EPA	84 % - Readily - 20 days	Based on Ethanol
	EPA	74 % - Readily - 5 days	Based on Ethanol
	EPA	74 % - Readily - 10 days	Based on Ethanol
		_ , , , ,	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sasoline	-	-	Inherent
Ethanol	-	-	Readily

Bioaccumulative potential

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

Product/ingredient name	LogPow	BCF	Potential
Sasoline	2 to 7	-	high
diisopropyl ether	2.4		low
Ethanol	-0.35		low

Mobility in soil

Mobility

Soil/water partition coefficient (Koc)

Spillages may penetrate the soil causing ground water contamination.

Not available.

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 minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour 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

Regulatory information		Proper shipping name	Classes	PG*	Label	Additional information
New Zealand Class	UN1203	MOTOR SPIRIT or GASOLINE or PETROL	3	II	TAMASE V	The marine pollutant mark is not required when transported by road or rail. Hazchem code 3YE

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Section 14. Transport information UN1203 **ADG Class** MOTOR SPIRIT or 3 Hazchem code GASOLINE or 3YE **PETROL** Initial emergency response guide 3 Ш **IATA Class** UN1203 MOTOR SPIRIT or The environmentally GASOLINE or hazardous substance **PETROL** mark may appear if required by other transportation regulations. **IMDG Class** 3 UN1203 MOTOR SPIRIT or Ш The marine pollutant GASOLINE or mark is not required PETROL. Marine when transported in pollutant sizes of ≤5 L or ≤5 kg. **Emergency** schedules (EmS) F-E, S-E

PG*: Packing group

Section 15. Regulatory information

New Zealand Regulatory Information

HSNO Approval Number HRC000003 **HSNO Group Standard** Not applicable.

HSNO Classification 3.1 - FLAMMABLE LIQUIDS - Category A

6.3 - SKIN IRRITATION - Category B 6.7 - CARCINOGENICITY - Category B

6.1 - ACUTE TOXICITY (aspiration) (oral) - Category E

9.1 - AQUATIC ECOTOXICITY - Category B

Regulation according to other foreign laws

REACH Status For the REACH status of this product please consult your company contact, as

identified in Section 1.

United States inventory

(TSCA 8b)

Not determined.

Australia inventory (AICS) Contact local supplier or distributor.

Canada inventory status
China inventory (IECSC)

Japan inventory (ENCS)

Not determined.

Not determined.

Korea inventory (KECI) At least one component is not listed.

Philippines inventory

(PICCS)

Not determined.

Taiwan Chemical Not determined.

Substances Inventory (TCSI)

Section 16. Other information

History

Date of issue/Date of

14 March 2016

revision

Date of previous issue 25 June 2015.

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Section 16. Other information

Key to abbreviations

Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 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, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

Notice to reader

▼ Indicates information that has changed from previously issued version.

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