



SAFETY DATA SHEET

according to the Global Harmonized System

SDS # : A03194

ELF RACE 102

Issuing date: 2017-08-04

Revision Date: 2019-02-18

Version 2

Flammable liquids - Category 1
 Aspiration toxicity - Category 1
 Skin corrosion/irritation - Category 2
 Serious eye damage/eye irritation - Category 1
 Germ Cell Mutagenicity - Category 1B
 Reproductive toxicity - Category 2
 Carcinogenicity - Category 1B
 Specific target organ toxicity (single exposure) - Category 2
 Specific target organ toxicity (repeated exposure) - Category 2
 Acute aquatic toxicity - Category 2
 Chronic aquatic toxicity - Category 2

GHS Label elements, including precautionary statements

Contains Gasoline, toluene



Signal word

DANGER

Hazard Statements

H224 - Extremely flammable liquid and vapor
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H340 - May cause genetic defects
 H350 - May cause cancer
 H361 - Suspected of damaging fertility or the unborn child
 H371 - May cause damage to organs
 H373 - May cause damage to organs through prolonged or repeated exposure
 H411 - 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
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid release to the environment
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting equipment



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- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool
- Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER/doctor
- Call a POISON CENTER/doctor if you feel unwell
- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
- Take off contaminated clothing and wash it before reuse
- Call a POISON CENTER/doctor if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER/doctor
- Do NOT induce vomiting
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- Collect spillage

Precautionary Statements - Storage

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

- Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification

Environmental properties Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical nature Blend of gasoline refinery cuts

Chemical Name	CAS-No	EC-No	Weight %
Gasoline	86290-81-5	289-220-8	50-75
toluene	108-88-3	203-625-9	25-50
Propane, 2-methoxy-2-methyl	1634-04-4	216-653-1	10-25

Other constituents required for disclosure



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Chemical Name	CAS-No	EC-No	Weight %
2-ethoxy-2-methylpropane	637-92-3	211-309-7	10-25
Methyl tert-butyl ether	1634-04-4	216-653-1	10-25
Isobutyl alcohol	78-83-1	201-148-0	5-10
tert-Butyl alcohol	75-65-0	200-889-7	5-10
2-methylbutane	78-78-4	201-142-8	5-10
Xylene (mixed isomers o, m, p)	1330-20-7	215-535-7	5-10
propan-2-ol	67-63-0	200-661-7	5-10
Pentane	109-66-0	203-692-4	1-2.5
1,2,4-Trimethylbenzene	95-63-6	202-436-9	1-2.5
Ethylbenzene	100-41-4	202-849-4	1-2.5
n-Hexane	110-54-3	203-777-6	1-2.5
n-heptane	142-82-5	205-563-8	0.1-1
Cyclohexane	110-82-7	203-806-2	0.1-1
Benzene	71-43-2	200-753-7	0.1-1
1,3,5-Trimethylbenzene	108-67-8	203-604-4	0.1-1
1,2,3-trimethylbenzene	526-73-8	208-394-8	0.1-1
Propyl benzene	103-65-1	203-132-9	0.1-1
Alcohol	64-17-5	200-578-6	0.1-1

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this material safety data sheet to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract. If not breathing, give artificial respiration. Call a physician immediately.
Ingestion	Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Clean mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.
Protection of First-aiders	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.



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Most important symptoms/effects, acute and delayed

Skin contact	Reddening, irritation.
Eye contact	Causes serious eye damage.
Inhalation	Inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Alcohol-resistant foam. ABC powder. Cool containers / tanks with water spray. Water spray, fog or regular foam. Water spray. Foam.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Special Hazard Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Flash back possible over considerable distance. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Advice for fire-fighters

Special protective equipment for fire-fighters In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Wear self-contained breathing apparatus and protective suit.

Other information

Cool down any tanks and surfaces exposed to fire by spraying abundantly with water. Use water to cool tanks and parts exposed to the thermal flux not caught up in the flames. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers / tanks with water spray.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Heat, flames and sparks. Ensure adequate ventilation.
Advice for non-emergency personnel	Do not touch or walk through spilled material. For personal protection see section 8. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Advice for emergency responders	Take all appropriate steps to avoid fire, explosion and inhalation hazards to the rescuers including the use of breathing apparatus. In case of. Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. Work gloves (preferably gauntlets) providing adequate chemical resistance. Remarks: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Work helmet. Antistatic non-skid safety shoes or boots. Goggles and/or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection. A half or full-face respirator with filter(s) for organic vapours (and when applicable: for H ₂ S). A Self-Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Environmental precautions

General Information	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
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Methods and material for containment and cleaning up

Methods for cleaning up	Dam up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Ground and bond containers when transferring material. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.
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Other information



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Personal Protective Equipment	See Section 8 for more detail.
Waste treatment	See section 13.
Other information	Recommended measures are based on the most likely spillage scenarios for this material. However, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Prevent the formation of vapors, mists and aerosols. Wear personal protective equipment. Do not eat, drink or smoke when using this product. There is a hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use. Avoid static electricity build up with connection to earth. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. NEVER ATTEMPT TO PRIME THE CONTAINER SIPHON BY SUCKING WITH THE MOUTH.

Technical measures

Ensure adequate ventilation
WHILE MOVING THE PRODUCT: To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded
 Take all necessary precautions to prevent water from entering the containers, tanks, transfer lines etc..

Prevention of fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems). **OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION).** Do not use compressed air for filling, discharging or handling. Empty containers may contain flammable or explosive vapors. Do not allow splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation.

Hygiene measures

When using, do not eat, drink or smoke.
 Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product.
 Use personal protective equipment as required. Avoid breathing vapors, mist or gas. **IF ON SKIN:** Wash skin with soap and water.



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Remove contaminated clothing and shoes. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Loading and unloading must be carried out at ambient temperature. Ensure all equipment is electrically grounded before beginning transfer operations. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep away from heat. Protect from light. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Use only containers, seals, pipes, etc... made in a material suitable for use with aromatic hydrocarbons. Store in original container. Do not allow splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation. All metal parts of the mixing and processing equipment must be earthed. Use spark-proof tools and explosion-proof equipment.

Materials to Avoid

Strong oxidizing agents. Strong bases.

Packaging material

Use only containers, seals, pipes, etc... made in a material suitable for use with aromatic hydrocarbons, Use material compatible with: Ethanol

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Ingredients with workplace control parameters

Chemical Name	ACGIH (Additional information)	South Africa	Lesotho	Botswana	Namibia
Gasoline 86290-81-5	TWA 300 ppm STEL 500 ppm	C			
toluene 108-88-3	TWA 20 ppm	Ceiling 150 ppm Ceiling 560 mg/m ³ TWA 50 ppm TWA 188 mg/m ³ Skin* STEL 150 ppm STEL 560 mg/m ³	TWA 100 ppm		
Propane, 2-methoxy-2-methyl 1634-04-4	TWA 50 ppm				



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Chemical Name	Zambia	angola	Zimbabwe	Kenya	Tanzania	Uganda
toluene 108-88-3				TWA 50 ppm TWA 188 mg/m ³ STEL 150 ppm STEL 560 mg/m ³ Skin*		

Chemical Name	ACGIH (Additional information)	South Africa	Lesotho	Botswana	Namibia
2-ethoxy-2-methylpropane 637-92-3	TWA 25 ppm				
Methyl tert-butyl ether 1634-04-4	TWA 50 ppm				
Isobutyl alcohol 78-83-1	TWA 50 ppm	Ceiling 75 ppm Ceiling 225 mg/m ³ TWA 50 ppm TWA 150 mg/m ³ STEL 75 ppm STEL 225 mg/m ³			
tert-Butyl alcohol 75-65-0	TWA 100 ppm	Ceiling 150 ppm Ceiling 450 mg/m ³ TWA 100 ppm TWA 300 mg/m ³ STEL 150 ppm STEL 450 mg/m ³			
2-methylbutane 78-78-4	TWA 1000 ppm				
Xylene (mixed isomers o, m, p) 1330-20-7	TWA 100 ppm STEL 150 ppm	Ceiling 100 ppm Ceiling 435 mg/m ³ TWA 50 ppm TWA 218 mg/m ³ Skin* TWA 100 ppm TWA 435 mg/m ³ STEL 150 ppm STEL 650 mg/m ³ STEL 100 ppm STEL 435 mg/m ³	TWA 80 ppm TWA 350 mg/m ³		
propan-2-ol 67-63-0	TWA 200 ppm STEL 400 ppm	Ceiling 500 ppm Ceiling 1225 mg/m ³ TWA 400 ppm TWA 980 mg/m ³ TWA 960 mg/m ³			



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		STEL 500 ppm STEL 1225 mg/m ³ Skin*			
Pentane 109-66-0	TWA 1000 ppm	TWA 600 ppm TWA 1800 mg/m ³ STEL 750 ppm STEL 2250 mg/m ³			
Ethylbenzene 100-41-4	TWA 20 ppm	Ceiling 125 ppm Ceiling 545 mg/m ³ TWA 100 ppm TWA 435 mg/m ³ STEL 125 ppm STEL 545 mg/m ³			
n-Hexane 110-54-3	S* TWA 50 ppm	TWA 20 ppm TWA 70 mg/m ³			
n-heptane 142-82-5	TWA 400 ppm STEL 500 ppm	Ceiling 500 ppm Ceiling 2000 mg/m ³ TWA 400 ppm TWA 1600 mg/m ³ STEL 500 ppm STEL 2000 mg/m ³			
Cyclohexane 110-82-7	TWA 100 ppm	Ceiling 300 ppm Ceiling 1030 mg/m ³ TWA 100 ppm TWA 340 mg/m ³ STEL 300 ppm STEL 1030 mg/m ³			
Benzene 71-43-2	S* TWA 0.5 ppm STEL 2.5 ppm	TWA 5 ppm TWA 16 mg/m ³ TWA 1 ppm TWA 3 mg/m ³ C	TWA 5 ppm TWA 16 mg/m ³		
Alcohol 64-17-5	STEL 1000 ppm	TWA 1000 ppm TWA 1900 mg/m ³			



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Chemical Name	Zambie	angola	Zimbabwe	Kenya	Tanzania	Uganda
Isobutyl alcohol 78-83-1				TWA 50 ppm TWA 150 mg/m ³ STEL 75 ppm STEL 225 mg/m ³		
tert-Butyl alcohol 75-65-0				TWA 100 ppm TWA 300 mg/m ³ STEL 150 ppm STEL 450 mg/m ³		
Xylene (mixed isomers o, m, p) 1330-20-7				TWA 100 ppm TWA 435 mg/m ³ STEL 150 ppm STEL 650 mg/m ³ Skin*		
propan-2-ol 67-63-0				TWA 400 ppm TWA 980 mg/m ³ STEL 500 ppm STEL 1225 mg/m ³ Skin*		
Pentane 109-66-0				TWA 600 ppm TWA 1800 mg/m ³ STEL 750 ppm STEL 2250 mg/m ³		
Ethylbenzene 100-41-4				TWA 100 ppm TWA 435 mg/m ³ STEL 545 mg/m ³		
n-Hexane 110-54-3				TWA 500 ppm TWA 1800 mg/m ³ TWA 20 ppm TWA 70 mg/m ³ STEL 1000 ppm STEL 3600 mg/m ³		
n-heptane 142-82-5				TWA 400 ppm TWA 1600 mg/m ³ STEL 500 ppm STEL 2000 mg/m ³		
Cyclohexane 110-82-7				TWA 100 ppm TWA 340 mg/m ³ STEL 300 ppm STEL 1030 mg/m ³		
Benzene 71-43-2				TWA 5 ppm TWA 16 mg/m ³		
Alcohol 64-17-5				TWA 1000 ppm TWA 1900 mg/m ³		

Chemical Name	ACGIH (Additional information)	South Africa	Lesotho	Botswana	Namibia
toluene 108-88-3	Toluene in blood 0.02 mg/L -prior to last shift of workweek Toluene in urine 0.03	2.5 1			



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	mg/L -end of shift o-Cresol with hydrolysis in urine 0.3 mg/g creatinine -end of shift				
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Chemical Name	Zambie	angola	Zimbabwe	Kenya	Tanzania	Uganda
toluene 108-88-3				Sang: 1 mg/L		

Chemical Name	ACGIH (Additional information)	South Africa	Lesotho	Botswana	Namibia
Xylene (mixed isomers o, m, p) 1330-20-7	Methylhippuric acids in urine 1.5 g/g creatinine -end of shift	1.5			
propan-2-ol 67-63-0	Acetone in urine 40 mg/L -end of shift at end of workweek				
Ethylbenzene 100-41-4	Sum of mandelic acid and phenylglyoxylic acid in urine 0.15 g/g creatinine -end of shift	1.5			
n-Hexane 110-54-3	2,5-Hexanedione without hydrolysis in urine 0.4 mg/L -end of shift at end of workweek	5			
Benzene 71-43-2	S-Phenylmercapturic acid in urine 25 µg/g creatinine -end of shift t,t-Muconic acid in urine 500 µg/g creatinine -end of shift	50 0.08 0.12			

Appropriate engineering controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment (PPE)

Personal Protective Equipment

General Information

These recommendations apply to the product as supplied. If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. Protective engineering solutions should be implemented and in use before personal protective equipment is considered.



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Respiratory protection	When using a mask or half mask :. Type AX. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shields.
Skin and body protection	Impermeable gloves. Impervious clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective clothing. Protective shoes or boots.
Hand Protection	Hydrocarbon-proof gloves for aromatic hydrocarbons. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Color	colorless
Physical State @20°C	liquid
Odor	Petroleum distillates
Odor Threshold	No information available

Important health safety and environmental information

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	35 - 170 °C 95 - 338 °F		ISO 3405 ISO 3405
Flash point	< -30 °C < -22 °F		ASTM D 93 ASTM D 93.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
Vapor Pressure	450 hPa	@ 37.8 °C	ISO 13016-1
Vapor density	> 1	(Air = 1)	
Relative density	0.76		
Density	768 kg/m ³	@ 15 °C	ISO 12185
Water solubility		slightly soluble	
Solubility in other solvents		Not applicable	



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logPow		No information available	
Autoignition temperature	> 230 °C > 446 °F		
Decomposition temperature		Not applicable	
Viscosity, kinematic	< 1 mm ² /s	@ 40 °C	ISO 3104
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations		
Oxidizing Properties	This product is not considered oxidising based on chemical structure considerations		
Possibility of hazardous reactions	None under normal processing		

Other information

Freezing Point		No information available
Conductivity	> 1 pS/m	

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	No information available.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Conditions to avoid</u>	Heat, flames and sparks. Take precautionary measures against static discharges. Heating in air.
<u>Materials to Avoid</u>	Strong oxidizing agents. Strong bases.
<u>Hazardous Decomposition Products</u>	None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



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Skin contact Reddening, irritation.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity - Product Information

Oral Not classified.

Dermal Not classified.

Inhalation Not classified.

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Gasoline	ATE (Cat 4)	ATE (Cat 4)	ATE (Cat 4)
toluene	5580 mg/kg bw (rat)	> 5000 mg/kg bw (rabbit)	28.1 mg/L (Rat-vapour) 4h
Propane, 2-methoxy-2-methyl	= 4 g/kg (Rat)	> 2000 mg/kg (Rat) > 10000 mg/kg (Rabbit)	= 23576 ppm (Rat) 4 h = 85 mg/L (Rat) 4 h

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Causes serious eye damage.

Sensitization The current toxicological knowledge allows to not classify the product as a sensitizer.

Carcinogenicity May cause cancer

Chemical Name	ACGIH	IARC
Gasoline 86290-81-5	A3	2B
Propane, 2-methoxy-2-methyl 1634-04-4	A3	

Other constituents required for disclosure

Chemical Name	ACGIH	IARC
Methyl tert-butyl ether 1634-04-4	A3	
Ethylbenzene 100-41-4	A3	2B
Benzene	A1	1



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71-43-2		
Alcohol 64-17-5	A3	1

ACGIH: (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen

A1 - Known Human Carcinogen

IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Mutagenicity	May cause genetic defects.
Germ Cell Mutagenicity	No information available
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Subchronic toxicity	No information available.
Target Organ Effects (STOT)	No information available
STOT - single exposure	May cause damage to organs
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	May be fatal if swallowed and enters airways.
Neurological effects	No information available.
Other adverse effects	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Gasoline 86290-81-5	LC50(72h) > 3.1 mg/l (Algae)	EC50(48h) > 4.5 mg/l (Daphnia magna)	LC50(96h) > 8.2 mg/l (Fish)	
toluene 108-88-3	EC50 (3 h) 134 mg/l Chlorella vulgaris	EC50 (48h) 3.78mg/l Daphnia magna	LC50 (96h) 5.5 mg/l Oncorhynchus kisutch	-
Propane, 2-methoxy-2-methyl	EC50 (72h) > 800 mg/L Desmodesmus subspicatus	EC50 (48h) = 542 mg/L Daphnia magna	LC50 (96h) = 672 mg/L Pimephales promelas	



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1634-04-4	EC50 (96h) = 184 mg/L Pseudokirchneriella subcapitata	(flow-through) LC50 (96h) > 100 mg/L Brachydanio rerio (semi-static) LC50 (96h) = 929 mg/L Pimephales promelas (static) LC50 (96h) = 887 mg/L Oncorhynchus mykiss (flow-through)
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Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
toluene 108-88-3	NOEC(72h) 10 mg/l Skeletonema costatum	NOEC (7d) 0.74 mg/l (Ceriodaphnia dubia) EC50 (7d) 3.23 mg/l (Ceriodaphnia dubia) LOEC (7d) 2.76 mg/l (Ceriodaphnia dubia)	NOEC (40d) 1.39 mg/l (Oncorhynchus kisutch) LOEC (40d) 2.77 mg/l (Oncorhynchus kisutch)	

Effects on terrestrial organisms No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information

Chemical Name	log Pow
toluene - 108-88-3	2.73
Propane, 2-methoxy-2-methyl - 1634-04-4	1.06

Mobility

Soil Given its physical and chemical characteristics, the product is generally mobile in the ground. It may contaminate ground water.



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Air	The product evaporates in the air and dissipates more or less depending on local conditions. However, it may stagnate in pools in low-lying areas, in an undisturbed or confined atmosphere.
Water	The product spreads on the surface of the water. A small amount may solubilise in water.
<u>Other adverse effects</u>	
General Information	No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers may contain flammable or explosive vapors. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other information	Refer to section 8 for safety and protective measures for disposal personnel.

14. TRANSPORT INFORMATION

ADR/RID

UN/ID No	UN1203
Hazard class	3
Proper shipping name	GASOLINE
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3
Special Provisions	243, 534, 664
ADR Hazard Id (Kemmler Number)	33
Description	UN1203, GASOLINE, 3, II, (D/E), Environmentally hazardous
Limited quantity	1 L

IMDG/IMO

UN/ID No	UN1203
Hazard class	3
Proper shipping name	GASOLINE
Packing Group	II
Marine pollutant	Yes
EmS No.	F-E, S-E
Description	UN1203, GASOLINE (NAPHTHALENE), 3, II, (-30°C C.C.), MARINE POLLUTANT
Special Provisions	243



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Excepted Quantity	E2
Limited quantity	1 L

ICAO/IATA

UN/ID No	UN1203
Hazard class	3
Proper shipping name	Gasoline
Packing Group	II
ERG Code	3H
Special Provisions	A100
Description	UN1203, Gasoline, 3, II
Excepted Quantity	E2
Limited quantity	1 L

ADN

UN/ID No	UN1203
Hazard class	3
Proper shipping name	GASOLINE
Packing Group	II
Classification Code	F1
Special Provisions	243, 534
Description	UN1203, GASOLINE, 3, II, Environmentally hazardous
Hazard Labels	3
Limited quantity	1 L

15. REGULATORY INFORMATION

International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:
 Europe (EINECS/ELINCS/NLP)
 Japan (ENCS)
 Philippines (PICCS)
 Australia (AICS)

Further information

No information available

National regulatory information

No information available

16. OTHER INFORMATION



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Revision Date: 2019-02-18
Revision Note No information available.

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

Legend

Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+	Sensitizer	*	Skin designation
C:	Carcinogen		

Additional details on the supplier of the product

KENYA Supplier	TOTAL KENYA PLC Regal Plaza, 6th Avenue Limuru Road P.O. Box 30736, 00100 GPO Nairobi / KENYA	MAURITIUS Supplier	TOTAL MAURITIUS Chaussée Tromelin, Quai D BP 1202 Port-Louis / MAURITIUS
NAMIBIA Supplier	TOTAL NAMIBIA (PTY) LTD 5 Otto Nitzsche Strasse, Klein Windhoek Windhoek / NAMIBIA	SOUTH AFRICA Supplier	TOTAL SOUTH AFRICA (PTY) LTD Total House, 3 Biermann Avenue, Rosebank, 2196 P.O Box 579, Saxonwold 2132 / SOUTH AFRICA
SWAZILAND Supplier	TOTAL SWAZILAND (PTY) LTD King Sobhuza 2nd Avenue, Industrial sites Manzini / SWAZILAND	TANZANIA Supplier	TOTAL TANZANIA LTD TOTAL HOUSE - Msasani Peninsula Haile Selassie Road, Plot no. 1720 P.O. BOX 1503 Dar es Salaam / TANZANIA



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UGANDA TOTAL UGANDA
Supplier Plot 4, eighte Street Indusrial Area
 Kampala / UGANDA

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet