



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

1. IDENTIFICATION

Product identifier

Product name TOTAL CORE 50

Other means of identification

Product Code(s) 089539

Number
Substance/mixture .
Mixture

Recommended use of the chemical and restrictions on use

Identified uses Racing fuel for use in Motorsports.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA, Inc.
1201 Louisiana St. Suite 1800
Houston, TX 77002
Phone: 713-483-5000

Contact Point Technical/ HSEQ

E-mail Address rm.acs-fds@total.com

Emergency telephone number

Emergency telephone 1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic)
1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids - Category 2
Skin corrosion/irritation - Category 2
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1B
Reproductive toxicity - Category 2
Specific target organ systemic toxicity (single exposure) - Category 3
Specific target organ systemic toxicity (repeated exposure) - Category 2
Aspiration toxicity - Category 1



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

Label elements



DANGER

Hazard Statements

Highly flammable liquid and vapor
 Causes skin irritation
 May cause genetic defects
 May cause cancer
 Suspected of damaging fertility or the unborn child
 May cause drowsiness or dizziness
 May cause damage to organs through prolonged or repeated exposure
 May be fatal if swallowed and enters airways

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
 Wash face, hands and any exposed skin thoroughly after handling
 Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Keep cool
 Use explosion-proof electrical/ ventilating / lighting equipment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see supplemental first aid instructions on this label)

Skin

If skin irritation occurs: Get medical advice/attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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

Hazards not otherwise classified (HNOC)

None known

Other information**Environmental properties**

Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture**

Chemical Name	CAS-No	Weight %
toluene	108-88-3	25 - 50
Naphtha (petroleum), full-range alkylate, butane-contg.	68527-27-5	10 - 25
ETHANOL	64-17-5	5 - 10
hydrocarbons, C6, isoalkanes, <5% n-hexane	^	5 - 10
2-ethoxy-2-methylpropane	637-92-3	5 - 10
hexene	25264-93-1	2.5 - 5
Hydrocarbons, C5-rich	68476-55-1	10-25

Other constituents required for disclosure

Chemical Name	CAS-No	Weight %
isopentane	78-78-4	2.5 - 5
Pentane	109-66-0	2.5 - 5
oct-1-ene	111-66-0	1 - 2.5
n-Hexane	110-54-3	0.1 - 1
xylene	1330-20-7	0.1 - 1
Benzene	71-43-2	0.1 - 1

4. FIRST AID MEASURES**First aid measures for different exposure routes****General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this safety data sheet to the doctor in attendance.



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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.

Most important symptoms/effects, acute and delayed

Skin contact	Causes skin irritation.
Eye contact	Not classified based on available data.
Inhalation	May cause drowsiness and dizziness. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Dry chemical. Carbon dioxide (CO ₂). ABC powder. Foam. Cool containers / tanks with water spray. Water spray, fog or regular foam.
Uniform Fire Code	Flammable Liquid: I-A Other Health Hazard: Target Organ Toxin--Liquid Blasting Agents Irritant: Liquid Other Health Hazard: Carcinogen--Liquid (Note 5) Highly Toxic: Liquid
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information

Except in case of small spillages. The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

If required, notify relevant authorities according to all applicable regulations.

Evacuate non-essential personnel. For personal protection see section 8.

Stop or contain leak at the source, if safe to do so. Cut off the electric power supply if this operation causes no sparks in the area containing vapors from the product. Stay upwind.

In case of large spillages, alert occupants in downwind areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). In case of important spillages: risk of fire or explosion. Cover discharges with foam in order to reduce the risks of ignition. Vapours are heavier than air and may spread near ground level to sources of ignition.

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 H₂S). 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.

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.



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

For this reason, local experts should be consulted when necessary.
Local regulations may also prescribe or limit actions to be taken.

Environmental precautions

General Information

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. The product should not be allowed to enter drains, water courses or the soil.
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. In case of spill in river, suspend the use of the water downstream to the spillpoint. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for cleaning up

Dam up. Ground and bond containers when transferring material. 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.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

NEVER ATTEMPT TO PRIME THE CONTAINER SIPHON BY SUCKING WITH THE MOUTH.
Avoid contact with skin, eyes and clothing. Prevent the formation of vapors, mists and aerosols. Take precautionary measures against static electricity. Ensure that all relevant regulations regarding explosive atmospheres, handling and storage facilities of flammable products, are followed. The inspection, cleaning and maintenance of storage containers require the application of strict procedures and must be entrusted to qualified personnel (internal or external).
Ensure adequate ventilation. Vapors may form explosive mixtures with air. Do not smoke. Avoid breathing vapors or mists.
Do not use compressed air for filling, discharging, or handling operations. Never pierce, drill, grind, cut, saw or weld any empty container.
For personal protection see section 8.

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



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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.
Remove contaminated clothing and shoes. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from light. 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. Loading and unloading must be carried out at ambient temperature. Ensure all equipment is electrically grounded before beginning transfer operations. 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. Keep container tightly closed in a dry and well-ventilated place. Use spark-proof tools and explosion-proof equipment.

Packaging material

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

Materials to Avoid

Strong oxidizing agents. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
toluene 108-88-3	TWA 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
ETHANOL 64-17-5	STEL 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
2-ethoxy-2-methylpropane 637-92-3	TWA 25 ppm	-	



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

Other constituents required for disclosure .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
isopentane 78-78-4	TWA 1000 ppm	-	
Pentane 109-66-0	TWA 1000 ppm	TWA: 1000 ppm TWA: 2950 mg/m ³	IDLH: 1500 ppm TWA: 120 ppm TWA: 350 mg/m ³ Ceiling: 610 ppm Ceiling: 1800 mg/m ³
n-Hexane 110-54-3	S* TWA 50 ppm	TWA: 500 ppm TWA: 1800 mg/m ³	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m ³
xylene 1330-20-7	STEL 150 ppm TWA 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³	
Benzene 71-43-2	S* STEL 2.5 ppm TWA 0.5 ppm	TWA: 10 ppm TWA: 1 ppm Ceiling: 25 ppm STEL: 5 ppm	IDLH: 500 ppm TWA: 0.1 ppm STEL: 1 ppm

Biological standards

Chemical Name	ACGIH
toluene 108-88-3	Toluene in blood 0.02 mg/L -prior to last shift of workweek Toluene in urine 0.03 mg/L -end of shift o-Cresol with hydrolysis in urine 0.3 mg/g creatinine -end of shift

Chemical Name	ACGIH
n-Hexane 110-54-3	2,5-Hexanedione without hydrolysis in urine 0.4 mg/L -end of shift at end of workweek
xylene 1330-20-7	Methylhippuric acids in urine 1.5 g/g creatinine -end of shift
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

Exposure controls**Engineering Measures**

Ensure adequate ventilation. 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. Do not enter empty storage tanks until measurements of available oxygen have been carried out.

Individual protection measures, such as personal protective equipment**General Information**

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Eye/face protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection

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



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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.
Remove contaminated clothing and shoes. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

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

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range	36 - 125 °C 97 - 257 °F		ISO 3405 ISO 3405
Flash point	<= -30 °C <= -22 °F		ASTM D 93 ASTM D 93.
Evaporation rate	> 1	EtEt=1	
Flammability Limits in Air		No information available	
Vapor Pressure	590 hPa	@ 37.8 °C	ISO 13016-1
Vapor density	> 1	(Air = 1)	
Relative density	0.75		
Density	755 kg/m ³	@ 15 °C	ISO 12185
Water solubility		slightly soluble	
Solubility in other solvents		Soluble in hydrocarbons	
logPow		Not applicable	
Autoignition temperature	> 230 °C > 446 °F		
Decomposition temperature		Not applicable	



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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		ASTM D2624

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Take precautionary measures against static discharges. Heating in air.
Incompatible materials	Strong oxidizing agents. Strong bases.
Hazardous Decomposition Products	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**

Principle Routes of Exposure	Inhalation, Ingestion, Eye contact, Skin contact.
Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Skin contact	Causes skin irritation.
Eye contact	Not classified based on available data.
Inhalation	May cause drowsiness and dizziness. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Acute toxicity - Product Information**

Product Information Product does not present an acute toxicity hazard based on known or supplied information.



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

Oral ATEmix (oral)	Not classified based on available data 15796 mg/kg
Dermal ATEmix (dermal)	Not classified based on available data 33019 mg/kg
Inhalation ATEmix (inhalation-dust/mist) ATEmix (inhalation-vapor)	Not classified based on available data ppm 33 mg/l 58 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
toluene 108-88-3	5580 mg/kg bw (rat)	> 5000 mg/kg bw (rabbit)	28.1 mg/L (Rat-vapour) 4h
Naphtha (petroleum), full-range alkylate, butane-contg. 68527-27-5	LD50 > 5000 mg/kg bw (rat - OECD TG 401)	LD50 > 2000 mg/kg bw (rabbit - OECD TG 402 - under occlusive conditions)	LC50 (4h) > 5610 mg/m ³ air (vapor) (rat - OECD 403)
ETHANOL 64-17-5	LD50 10470 mg/kg (Rat)	LD50 15800 mg/kg (Rabbit)	LC50 30000 mg/m ³
hydrocarbons, C6, isoalkanes, <5% n-hexane ^	LD50 >16750 mg/kg (rat - OECD 401)	LD50 >3350 mg/kg (rabbit - OECD 402)	LC50 (4h) 73860 ppm (rat - vapour - OECD 403) LC50 (4h) 259354 mg/m ³ (rat - vapour - OECD 403)
2-ethoxy-2-methylpropane 637-92-3	LD50 > 2003 mg/kg bw (rat - OECD 401)	LD50 > 2000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5.88 mg/l (Rat- vapour - OECD 203)
hexene 25264-93-1	LD50 2000 - 10000 mg/kg bw (rat - OECD 420)	LD50 > 2000 mg/kg bw (rat - OECD 402)	
Hydrocarbons, C5-rich 68476-55-1	LD50 >2000 mg/kg bw (rat Wistar male/female) (OECD Guideline 401)		

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Not classified based on available data.
Sensitization	Not classified based on available data.
Carcinogenicity	May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHANOL 64-17-5	A3	1		X

Other constituents required for disclosure .

Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene 71-43-2	A1	1	Known	X

Legend:**ACGIH: (American Conference of Governmental Industrial Hygienists)** A1 - Known Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans**NTP: (National Toxicity Program)** Known - Known Carcinogen**OSHA: (Occupational Safety & Health Administration)** X - Present



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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

12. ECOLOGICAL INFORMATION**Ecotoxicity** Toxic to aquatic life with long lasting effects**Acute aquatic toxicity - Product Information**

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
toluene 108-88-3	EC50 (3 h) 134 mg/l Chlorella vulgaris	LC50 (96h) 5.5 mg/l Oncorhynchus kisutch	EC50 (48h) 3.78mg/l Daphnia magna	-
Naphtha (petroleum), full-range alkylate, butane-contg. 68527-27-5	EL50(72h) 3.1 mg/l (Selenastrum capricornutum/Pseudokirchnerella subcapitata - OECD 201)	LL50(96h) 8.2 mg/l (Pimephales promelas)	EL50(48h) 4.5 mg/l (Daphnia magna - OECD 202)	
ETHANOL 64-17-5	EC50 (72h) 275 mg/l Chlorella vulgaris (OECD 201)	LC50 (96h) 14200 mg/l Pimephales Promelas (EPA)	EC50 (48h) 5012 mg/l Ceriodaphnia dubia (ASTM E729-80)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min
hydrocarbons, C6, isoalkanes, <5% n-hexane ^	EC50r (72h) 55 mg/l (Pseudokirchneriella subcapitata)	LC50 (96h) 18.27 mg/l (Oncorhynchus mykiss)	EC50 (48h) 3.87 mg/l (Daphnia magna) EL50 (48h) 31.9 mg/l (Daphnia magna)	
hexene 25264-93-1	EC50(72h) 0.00093 - 1.8 mg/l (Pseudokirchneriella subcapitata - OECD 201)	LC50(96h) 0.0034 - 6.6 mg/l (Oncorhynchus mykiss - OECD 203)	EC50(48h) 0.0028 - 4.400 mg/l (Daphnia magna - OECD 202)	EC50(3h) 1 g/l
Hydrocarbons, C5-rich 68476-55-1	EC50(72h) 12.4 mg/l (Pseudokirchnerella subcapitata)	LC50(96h) 8.41 mg/l (Oncorhynchus mykiss)	EC50(48h) 4.7 mg/l (Daphnia magna)	

Chronic aquatic toxicity - Product Information

No experimental data 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	NOEC(72h) 10 mg/l	NOEC (7d) 0.74 mg/l	NOEC (40d) 1.39 mg/l	



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

108-88-3	Skeletonema costatum	(Ceriodaphnia dubia) EC50 (7d) 3.23 mg/l (Ceriodaphnia dubia) LOEC (7d) 2.76 mg/l (Ceriodaphnia dubia)	(Oncorhynchus kisutch) LOEC (40d) 2.77 mg/l (Oncorhynchus kisutch)	
Naphtha (petroleum), full-range alkylate, butane-contg. 68527-27-5	NOELR(96h) 51 mg/l (based on cell density - Pseudokirchnerella subcapitata)			
ETHANOL 64-17-5		NOEC (10d) 9.6 mg/l Ceriodaphnia dubia	NOEC (30d) 245 mg/l (ECOSAR)	
hydrocarbons, C6, isoalkanes, <5% n-hexane ^	NOELR (72h) 3.034 mg/l (Pseudokirchneriella subcapitata)	NOELR (21d) 7.138 mg/l (Daphnia magna)	NOELR (28d) 4.089 mg/l (Oncorhynchus mykiss)	
hexene 25264-93-1		NOEC(21d) 0.0194 mg/l (Daphnia magna - OECD 211)		

Effects on terrestrial organisms No information available.**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** Not applicable**Component Information**

Chemical Name	log Pow
toluene 108-88-3	2.73
ETHANOL 64-17-5	-0.35
hydrocarbons, C6, isoalkanes, <5% n-hexane ^	3.6
Hydrocarbons, C5-rich 68476-55-1	2.2-5 à 23°C

Mobility**Soil** Given its physical and chemical characteristics, the product is generally mobile in the ground It may contaminate ground water.**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.**Other adverse effects****General Information** No information available



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

13. DISPOSAL CONSIDERATIONS**Waste treatment****Waste Disposal Methods**

Dispose of in accordance with local regulations. Should not be released into the environment. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

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.

US EPA Waste Number

D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
xylene 1330-20-7		Included in waste stream: F039		ignitable waste
Benzene 71-43-2	U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172	0.5 mg/L regulatory level	ignitable waste, toxic waste

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
toluene 108-88-3	Toxic Ignitable
ETHANOL 64-17-5	Toxic Ignitable

Other constituents required for disclosure .

Chemical Name	California Hazardous Waste Status
isopentane 78-78-4	Ignitable
Pentane 109-66-0	Toxic Ignitable
oct-1-ene 111-66-0	Toxic Ignitable
n-Hexane 110-54-3	Toxic Ignitable
xylene 1330-20-7	Toxic Ignitable
Benzene 71-43-2	Toxic Ignitable

14. TRANSPORT INFORMATION



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

DOT

UN/ID No	UN1203
Proper shipping name	GASOLINE
Hazard class	3
Packing Group	II
Reportable Quantity (RQ)	(toluene: RQ (kg)= 454.00)
Special Provisions	144, 177, B1, B33, IB2, T8, T4
Description	UN1203, GASOLINE, 3, II
Emergency Response Guide Number	128

Special Provisions	243
--------------------	-----

ICAO/IATA

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

IMDG/IMO

UN/ID No	UN1203
Proper shipping name	GASOLINE
Hazard class	3
Packing Group	II
EmS No.	F-E, S-E
Special Provisions	243
Marine pollutant	Yes
Description	UN1203, GASOLINE, 3, II, (-30°C C.C.), MARINE POLLUTANT
Excepted Quantity	E2
Limited quantity	1 L

ADR/RID

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



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

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)
 U.S.A. (TSCA)
 Japan (ENCS)

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
toluene	108-88-3	31.33	1.0

Other constituents required for disclosure

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
n-Hexane	110-54-3	0.1 - 1	1.0
xylene	1330-20-7	0.1 - 1	1.0
Benzene	71-43-2	0.1 - 1	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
toluene 108-88-3	1000 lb	X	X	X

Other constituents required for disclosure

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
xylene 1330-20-7 (0.1 - 1)	100 lb			X
Benzene 71-43-2 (0.1 - 1)	10 lb	X	X	X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone	Class 2 Ozone
---------------	--------	----------	-----------	---------------	---------------	---------------



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

					Depletors	Depletors
toluene	108-88-3	25 - 50		Group I		

Other constituents required for disclosure

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
oct-1-ene	111-66-0	1 - 2.5		Group I		
n-Hexane	110-54-3	0.1 - 1		Group V		
xylene	1330-20-7	0.1 - 1		Group I		
Benzene	71-43-2	0.1 - 1		Group I		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
toluene	1000 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	Weight %	California Prop. 65
toluene - 108-88-3	30.76217	Developmental
Naphthalene - 91-20-3	0.0000312	Carcinogen

Other constituents required for disclosure

Chemical Name	Weight %	California Prop. 65
n-Hexane - 110-54-3	0.1 - 1	Male Reproductive
Benzene - 71-43-2	0.1 - 1	Carcinogen Developmental Male Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
toluene 108-88-3	X	X	X	X
ETHANOL 64-17-5	X	X	X	
2-ethoxy-2-methylpropane 637-92-3		X		

Other constituents required for disclosure

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
isopentane 78-78-4	X	X	X	
Pentane 109-66-0	X	X	X	
oct-1-ene 111-66-0	X		X	



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24

Revision Date: 2020-01-28

Version 1.01

n-Hexane 110-54-3	X	X	X	X
xylene 1330-20-7	X	X	X	X
Benzene 71-43-2	X	X	X	X

Component	Hazardous Substances RQs	Extremely Hazardous Substances RQs
toluene 108-88-3 (25 - 50)	1000 lb	

16. OTHER INFORMATION

NFPA **Health Hazard** 2 **Flammability** 4 **Instability** 0 **Special hazards ***
HMIS **Health Hazard** 2* **Flammability** 4 **Physical Hazard** 0 **Personal protection** X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2020-01-28
Revision Note (M)SDS sections updated 15

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

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDLH - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

TSCA - Toxic Substance Control Act



SDS # : 089539

TOTAL CORE 50

Date of the previous version: 2020-01-24**Revision Date:** 2020-01-28**Version** 1.01

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