



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

1. IDENTIFICATION

Product identifier

Product name ESSENCE SPB PERFO 100

Other means of identification

Product Code(s) A01543

Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Fuel.

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 ADDITIFS ET CARBURANTS SPECIAUX
Place du Bassin
69700 Givors
FRANCE
Tel: +33 (0) 4 72 49 27 00
Fax: +33 (0) 4 78 07 92 49

Contact Point Technical/ HSEQ

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

Emergency telephone number

Emergency telephone +1 866 928 0789 (24h/24, 7d/7)

+1 215 207 0061 (24h/24, 7d/7)

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids - Category 1
Skin corrosion/irritation - Category 2
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

Label elements



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1



DANGER

Hazard Statements

Extremely flammable liquid and vapor
 Causes skin irritation
 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

Wash face, hands and any exposed skin thoroughly after handling
 Do not breathe dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 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
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid release to the environment

Precautionary Statements - Response

Specific treatment (see 4 on this label)
 IF exposed or concerned: Get medical advice/attention

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

Precautionary Statements - Storage

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



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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	75-90
Hydrocarbons, C7-C9, isoalkanes	^	10-25
2-methylbutane	78-78-4	5-10

Other constituents required for disclosure

Chemical Name	CAS-No	Weight %
Butane	106-97-8	1-2.5
Xylene (mixed isomers o, m, p)	1330-20-7	0.1 - 1
Pentane	109-66-0	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 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.



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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	Reddening, irritation.
Eye contact	Burning feeling and temporary redness.
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.
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	Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours). 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. Water spray.
Uniform Fire Code	Flammable Liquid: I-A Other Health Hazard: Target Organ Toxin--Liquid Blasting Agents Irritant: Liquid HIGH EXPLOSIVES
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
<u>Special Hazard</u>	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.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

Protective Equipment and Precautions for Firefighters

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.

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.

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



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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 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.

SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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 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 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 in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep in a bunded 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.

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() (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
2-methylbutane 78-78-4	TWA 1000 ppm	-	

Other constituents required for disclosure

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butane 106-97-8	STEL 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³
Xylene (mixed isomers o, m, p) 1330-20-7	STEL 150 ppm TWA 100 ppm	TWA: 100 ppm() TWA: 435 mg/m ³ () (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³	
Pentane 109-66-0	TWA 1000 ppm	TWA: 1000 ppm() TWA: 2950 mg/m ³ () (vacated) TWA: 600 ppm	IDLH: 1500 ppm TWA: 120 ppm TWA: 350 mg/m ³



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

		(vacated) TWA: 1800 mg/m ³ (vacated) STEL: 750 ppm (vacated) STEL: 2250 mg/m ³	Ceiling: 610 ppm Ceiling: 1800 mg/m ³
--	--	--	---

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

Other constituents required for disclosure

Chemical Name	ACGIH
Xylene (mixed isomers o, m, p) 1330-20-7	Methylhippuric acids in urine 1.5 g/g creatinine -end of shift

Exposure 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**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

Impermeable gloves. Impervious clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. Apron. 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.

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.



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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	
Property	Values	Remarks	Method
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	> 34 °C > 93 °F		EN ISO 3405 EN ISO 3405
Flash point	<= -30 °C <= -22 °F		ISO 2719 ISO 2719.
Evaporation rate		Not applicable	
Flammability Limits in Air		No information available	
Vapor Pressure	459 hPa	@ 37.8 °C	EN 13016-1
Vapor density	> 1	(Air = 1)	
Relative density	0.81		
Density	811 kg/m ³	@ 15 °C	ISO 12185
Water solubility		slightly soluble	
Solubility in other solvents		Not applicable	
logPow		Not applicable	
Autoignition temperature	> 230 °C > 446 °F		
Decomposition temperature		No information available	
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	No information available		
Other information			
Freezing Point		No information available	

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

Conditions to avoid Heat, flames and sparks. Take precautionary measures against static discharges. Heating in air. Conditions to avoid.

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 Reddening, irritation.

Eye contact Burning feeling and temporary redness.

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.

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.

Oral Not classified.
ATEmix (oral) 7326 mg/kg

Dermal Not classified
ATEmix (dermal) 16105 mg/kg

Inhalation Not classified
ATEmix (inhalation-dust/mist) 29 mg/l
ATEmix (inhalation-vapor) 34 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
Hydrocarbons, C7-C9, isoalkanes	LD50 > 5000 mg/kg bw (rat - OECD)	LD50 > 2000 mg/kg (Rabbit -	LC50(4h) > 21 mg/l (Rat - Vapors -

SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

^	401)	OECD402)	OECD403)
2-methylbutane 78-78-4	LD50 > 2000 mg/kg (Rat -OECD 401)		LC50 (4h) > 25.3 mg/l (Rat - vapor - OECD 403)

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Not classified.
Sensitization	The current toxicological knowledge allows to not classify the product as a sensitizer.
Carcinogenicity	Not classified based on available data.

Mutagenicity	Not classified based on available data.
Germ Cell Mutagenicity	Not classified based on available data.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Target Organ Effects (STOT)	May cause drowsiness and dizziness.
STOT - single exposure	May cause drowsiness or dizziness.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration).

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	-
Hydrocarbons, C7-C9, isoalkanes ^	EbL50 (72h) = 10-30 mg/l (Pseudokirchneriella subcapitata - OECD 201) ErL50 (72h) = 10-30 mg/l (Pseudokirchneriella subcapitata - OECD 201)	LL50 (96h) = 18,4 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) = 2,4 mg/l (Daphnia magna - TNO)	-
2-methylbutane 78-78-4	EC50 (72h) 10.7 mg/l (Pseudokirchneriella subcapitata - Read across)	LC50 (96h) 4.26 mg/l (Oncorhynchus mykiss - Read across)	EC50 (48h) = 2.3 mg/l (Daphnia magna - Read across)	

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
---------------	-------------------	---	------------------	----------------------------



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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)	
Hydrocarbons, C7-C9, isoalkanes ^	NOELR (72 h) = 6,3 mg/L (Pseudokirchneriella subcapitata - growth rate - OECD 201) NOELR (72 h) = 6,3 mg/l (Pseudokirchneriella subcapitata - biomass - OECD 201)	NOELR (21d) = 0.17 mg/l (Daphnia magna)	NOELR (28d) = 0,78 mg/l (Oncorhynchus mykiss -QSAR Petrotox)	

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
2-methylbutane 78-78-4	3.3

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**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods** Dispose of in accordance with local regulations. Should not be released into the



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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 (mixed isomers o, m, p) 1330-20-7		Included in waste stream: F039		ignitable 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
2-methylbutane 78-78-4	Ignitable

Chemical Name	California Hazardous Waste Status
Xylene (mixed isomers o, m, p) 1330-20-7	Toxic Ignitable
Pentane 109-66-0	Toxic Ignitable

14. TRANSPORT INFORMATION**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

TDG

UN/ID No UN1203
 Proper shipping name GASOLINE
 Hazard class 3
 Packing Group II
 Special Provisions 17, 88, 98, 155
 Description UN1203, GASOLINE, 3, II



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

MEX

UN/ID No	UN1203
Proper shipping name	GASOLINE
Hazard class	3
Special Provisions	243
Packing Group	II
Description	UN1203, GASOLINE, 3, II

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
Description	UN1203, GASOLINE, 3, II, (-30°C C.C.)
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)
Limited quantity	1 L
ADR/RID-Labels	3
Environmental hazard	Yes

ADN

UN/ID No	UN1203
Proper shipping name	GASOLINE
Hazard class	3
Packing Group	II
Classification Code	F1
Special Provisions	243, 363, 534
Description	UN1203, GASOLINE, 3, II
Hazard Labels	3



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

Limited quantity 1 L
 Ventilation VE01
 Equipment Requirements PP, EX, A

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)
 Canada (DSL/NDSL)
 Japan (ENCS)
 China (IECSC)
 Korea (KECL)
 Australia (AICS)
 New Zealand (NZIoC)
 Taiwan (TCSI)

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	76.17	1.0

Other constituents required for disclosure .

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Xylene (mixed isomers o, m, p)	1330-20-7	0.1 - 1	1.0

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

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylene (mixed isomers o, m, p) 1330-20-7	100 lb			X



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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 Depletors	Class 2 Ozone Depletors
toluene	108-88-3	75-90		Group I		

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Xylene (mixed isomers o, m, p)	1330-20-7	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	

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Xylene (mixed isomers o, m, p)	100 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	75-90	Developmental
Naphthalene - 91-20-3	0.000024	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
toluene 108-88-3	X	X	X	X
2-methylbutane 78-78-4	X	X	X	

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Butane 106-97-8	X	X	X	
Xylene (mixed isomers o, m, p) 1330-20-7	X	X	X	X
Pentane 109-66-0	X	X	X	

16. OTHER INFORMATION



SDS # : A01543

ESSENCE SPB PERFO 100

Date of the previous version: not applicable

Revision Date: 2018-02-06

Version 1

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: 2018-02-06
Revision Note: Initial Release

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

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