

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : White spirit

Product code : 0623001F.

1.2. Relevant identified uses of the substance or mixture and uses advised against

solvent.

1.3. Details of the supplier of the safety data sheet

Registered company name : FOREVER PRODUCTS N.V..

Address : 122 rue de la Glacerie.6180.COURCELLES.Belgique.

Telephone : 071/46.85.15. Fax : 071/46.85.69.

Contactpersoon, personne à cont.: Christelle Hulin

1.4. Emergency telephone number : 070 245 245.

Association/Organisation : Antigifcentrum België, centre anti-poison.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

Repeated exposure may cause skin dryness or cracking (EUH066).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

Specific target organ toxicity (repeated exposure), Category 1 (STOT RE 1, H372).

Aspiration hazard, Category 1 (Asp. Tox. 1, H304).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



Signal Word :

DANGER

Product identifiers :

EC 919-446-0 HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Hazard statements :

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure (central nervous system) (if inhaled).

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapours.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor/.../if you feel unwell.
 P331 Do NOT induce vomiting.

Precautionary statements - Storage :

P405 Store locked up.

Precautionary statements - Disposal :

P501 Dispose of contents / container in accordance with regulations.

2.3. Other hazards

The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances****Composition :**

Identification	(EC) 1272/2008	Note	%
EC: 919-446-0 REACH: 01-2119458049-33 HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)	GHS09, GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 2, H411 EUH:066		100%

Other data :

benzene content of <50 mg / kg (= ppm)
 Benzene content < 0.1% w/w.
 aromatic content: 15-25%

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

Never give anything by mouth to an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

To immediately move away the person from the polluted atmosphere and to call a doctor.

In the event of splashes or contact with eyes :

Wash with plenty of clean, fresh water for several minutes.
 If irritation persists, consult a Ophthalmology.

In the event of splashes or contact with skin :

Remove soaked clothing and cleanse skin with soap and water.
 If irritation appears or if the contamination is extensive and prolonged, consult a doctor.

In the event of swallowing :

Do not ingest.
 Do not induce vomiting to avoid the risk of aspiration into the airways.
 Do not drink, do not induce vomiting and immediately transfer the person to a doctor, by showing the product label.

4.2. Most important symptoms and effects, both acute and delayed

A prolonged or repeated contact may dry skin and cause irritation.
 Irritating for the respiratory tracts.
 Inhalation of vapors in high concentrations have a narcotic effect on the central nervous system.
 In the event of accidental ingestion, the product can be aspired in the lungs because of its low viscosity and cause serious pulmonary lesions in the hours which follow (essential medical supervision during 48h).

4.3. Indication of any immediate medical attention and special treatment needed**Information for the doctor :**

Treat symptomatically.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

5.1. Extinguishing media

Suitable methods of extinction

- In the event of a fire, use :
- sprayed water or water mist
 - foam
 - carbon dioxide (CO₂)
 - powder dries

Unsuitable methods of extinction

- In the event of a fire, do not use :
- water jet

5.2. Special hazards arising from the substance or mixture

- In the event of a fire, the following may be formed :
- carbon monoxide (CO)
 - carbon dioxide (CO₂)

5.3. Advice for firefighters

Because of the toxicity of gases emitted during the thermal decomposition products, the speakers will be equipped with autonomous insulating breathing protection.
Cool containers / holding tank with water spray.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.
If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

6.3. Methods and material for containment and cleaning up

Contain and, spillage with non-combustible absorbent materials, eg sand, earth, vermiculite, diatomaceous earth, ...
Place the container for the disposal of waste recovered in accordance with current regulations (see section 13).
To rinse the zone contaminated with water.

6.4. Reference to other sections

See paragraphs 8 and 13 for more information.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

7.1. Precautions for safe handling

Use in well ventilated areas.

Recommended equipment and procedures :

For personal protection, see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep container closed in a dry and well ventilated.

Storage

Keep well away from all sources of ignition, heat and direct sunlight.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

TWA (EC 919-446-0, vapors): 150 mg / m³

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Final use:

Workers.

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	44 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	330 mg of substance/m3
Final use:	Consumers.
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	26 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	26 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	71 mg of substance/m3

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



- Eye / face protection

Before handling, it is necessary to wear protective glasses Side accordance with standard EN166.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Viton® (Hexafluoropropylene copolymer and vinylidene fluoride)

Thickness of the gloves Nitrile > 0.55mm.

Penetration time > 480 min

In case of contact through splashing:

-Rubber nitrile:	thickness of > 0.38 mm and penetration time > 60 minutes
-Neoprene	thickness of > 0.75 mm and penetration time > 60 minutes

- Body protection

Wear suitable protective clothing.

- Respiratory protection

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of mask with combined filters :

Wear a mask in accordance with standard EN136.

Wear a half mask in accordance with standard EN140.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

-A

Particle filter according to standard EN143 :

- P2 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

Physical state :	Fluid liquid.
Color:	Colorless

Important health, safety and environmental information

pH :	Not relevant.
Boiling point/boiling range :	Not specified.
Flash Point :	43.00 °C.
Explosive properties, lower explosivity limit (%) :	0.7
Explosive properties, upper explosivity limit (%) :	7.0
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density :	0.785 +/- 0.010
Water solubility :	Insoluble.
Viscosity :	< 1.25 mm2/s
Viscosity:	v < 7 mm2/s (40°C)
Evaporation rate :	31
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.
% VOC :	100 %
Distillation range	153-200°C

9.2. Other information

Superficial tension :	0.0245 N/m
Temperature of spontaneous combustion	> 230 °C

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

See the sections below.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- heating
- heat
- flames and hot surfaces
- sparks

10.5. Incompatible materials

Keep away from :

- strong acids
- oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****11.1.1. Substances****Acute toxicity :**

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Oral route :

LD50 > 15000 mg/kg

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 3400 mg/kg
Species : Rat

Inhalation route (Vapours) : LC50 > 13.1 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation :

Repeated exposure may cause drying out or cracking skin.

Serious damage to eyes/eye irritation :

May cause mild, transient ocular discomfort.

Respiratory or skin sensitisation :

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Local lymph node stimulation test : Non-Sensitiser.

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.

Buehler Test : Non-sensitiser.

Germ cell mutagenicity :

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)
No mutagenic effect.

Carcinogenicity :

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Carcinogenicity Test : Negative.
No carcinogenic effect.

Reproductive toxicant :

No sign of toxicity on the development.

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Study on development : Species : Rat

Specific target organ systemic toxicity - single exposure :

The inhalation of the vapors can cause somnolences and giddinesses.

Specific target organ systemic toxicity - repeated exposure :

Danger Causes damage to organs through repeated exposure or prolonged exposure.

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Inhalation route (Vapours) : C > 0,025 mg/l/6hrs/day
Species : Porc de Guinée
Duration of exposure : 90 days
OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

Aspiration hazard :

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Fish toxicity : NOEC = 0.13 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 28 days

Crustacean toxicity : NOEC = 0.28 mg/l
Species : Daphnia magna

Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

12.2. Persistence and degradability

12.2.1. Substances

Biodegradable to 75% in 28 days, according to the tests of OCDE 301F.

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

The substance is a UVCB. The tests for this parameter are not suitable.

12.4. Mobility in soil

The substance is a substance UVCB. The tests for this parameter are not suitable.

12.5. Results of PBT and vPvB assessment

Non-persistent substance.

Non bioaccumulable substance.

Non toxic substance.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2016).

14.1. UN number

1300

14.2. UN proper shipping name

UN1300=TURPENTINE SUBSTITUTE

14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	-	E1	3	D/E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	3	-	III	5 L	F-E,S-E	223	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	III	355	60 L	366	220 L	A3	E1	
	3	-	III	Y344	10 L	-	-	A3	E1	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

This sheet complements the technical instructions for use, but does not replace them. The information it contains are based on our knowledge of the product concerned on the date indicated. They are given in good faith. The attention of users is also drawn to the possible risks incurred when a product is utilised for purposes other than those for which it is designed.

It does in no way the user from knowing and applying all texts governing his activity. It will take under its sole responsibility the precautions related to the use he makes of the product.

The regulatory requirements referred merely to assist the recipient to fulfill its obligations when using the product dangerous. This list should not be considered exhaustive and does not ensure the recipient qu'éventuellement other obligations incumbent on him not because of texts other than those cited for the holding and handling of the product for which it is solely responsible .

Wording of the phrases mentioned in section 3 :

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure .
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations :

DNEL : Derived No-Effect Level

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.