

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : Toluène, réservé aux utilisateurs professionnels
Product code : 0620007F

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

1.3. Details of the supplier of the safety data sheet

Registered company name : FOREVER PRODUCTS N.V..
Address : 122 rue de la Glacière.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 2 (Flam. Liq. 2, H225).
Skin irritation, Category 2 (Skin Irrit. 2, H315).
Reproductive toxicity, Category 2 (Repr. 2, H361).
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).
Aspiration hazard, Category 1 (Asp. Tox. 1, H304).
This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Highly flammable (F, R 11).
Serious effects after prolonged or repeated inhalation exposure: harmful (Xn, R 48/20).
This substance represents an aspiration risk due to its low viscosity: harmful (Xn, R 65).
Skin irritation (Xi, R 38).
Vapours may cause drowsiness and dizziness (R 67).
Category 3 reproductive toxin (Xn, R 63 Repr. Cat. 3).
This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

N/A

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

Hazard pictograms :



GHS07



GHS08



GHS02

Signal Word :

DANGER

Product identifiers :

601-021-00-3

TOLUENE

Hazard statements :

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

H361d

Suspected of damaging the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure (if inhaled).

Precautionary statements - Prevention :

P210

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

smoking.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response :
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302 + P352 IF ON SKIN: Wash with plenty of water/...
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 - Disposal :
P501 To eliminate the contents/container in accordance with the regulation
local/regional/national/international.

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	67/548/EEC	Note	%
INDEX: 601-021-00-3	GHS02, GHS08, GHS07	Xn,F	[1]	50 <= x % < 100
CAS: 108-88-3	Dgr	Repr. Cat. 3;R63	[2]	
EC: 203-625-9	Flam. Liq. 2, H225	Xn;R48/20-R65		
REACH:	Repr. 2, H361d	Xi;R38		
01-2119471310-51	Asp. Tox. 1, H304	F;R11		
	STOT RE 2, H373	R67		
TOLUENE	Skin Irrit. 2, H315			
	STOT SE 3, H336			

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

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 :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

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 give the patient anything orally.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed, followed by vomiting, the product can enter the lungs.

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

Irritating for the eyes.

Irritating for the skin.

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 :

- 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

To wear clothing and equipment of fireproofed firemen.

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.

Report spills to appropriate authorities in accordance with the regulations.

6.3. Methods and material for containment and cleaning up

Dike to collect spills.

Dispose according to regulations.

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.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

7.1. Precautions for safe handling

Handle in well-ventilated areas.

Fire prevention :

Never inhale this substance.

Prevent the accumulation of electrostatic charges with connections to earth.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Recommended equipment and procedures :

For personal protection, see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a cool, well ventilated place

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 :

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
108-88-3	192	50	384	100	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
108-88-3	50 ppm	-	-	-	-

- Belgium (Order of 19/05/2009, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
108-88-3	50 ppm	-	-	-	-

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
108-88-3	20	76.8	100	384	R2, *	4bis,84

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
108-88-3	50 ppm	150 ppm	-	-	-

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, wear safety goggles in accordance with standard EN166.

- Hand protection

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

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Viton® (Hexafluoropropylene copolymer and vinylidene fluoride)
- PE (Polyethylene)

- 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.

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

-A

If exposure levels can not be determined or estimated with a sufficient degree of confidence or a lack of oxygen is possible, only SCBA insulation can be used.

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

Physical state :	Fluid liquid.
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Important health, safety and environmental information

pH :	Not relevant.
Boiling point/boiling range :	110 °C.
Flash Point :	4.00 °C.
Explosive properties, lower explosivity limit (%) :	1.3
Explosive properties, upper explosivity limit (%) :	6.7
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Vapour density :	>1
Density :	0.870 +/- 0.010
Water solubility :	Insoluble. 0.573- 0.587 g/L
Partition coefficient: n-octanol/water :	2.73
Viscosity :	0.57 mm2/s

Viscosity:	$\nu < 7 \text{ mm}^2/\text{s}$ (40°C)
Evaporation rate :	6
Melting point/melting range :	-95 °C.
Self-ignition temperature :	480 °C.
Decomposition point/decomposition range :	Not specified.
% VOC :	100%

9.2. Other information

Index of refraction :	1.494-1.499
Superficial tension :	0.0242 N/m

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

None under normal conditions of use.

10.4. Conditions to avoid

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces
- sparks

10.5. Incompatible materials

Keep away from :

- acids
- bases
- strong 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

Exposure to vapours from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the substance may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

Suspected human reproductive toxicant.

Suspected of damaging the unborn child.

May cause severe damage to organs in the event of repeated or prolonged exposure.

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

11.1.1. Substances

No toxicological data available for the substances.

Respiratory or skin sensitisation :

The product is not a dermal sensitizer.

Germ cell mutagenicity :

Negative Mutagenicity.

Carcinogenicity :

Current toxicological knowledge of the product makes it possible not to classify it like cancerogenic.

Specific target organ systemic toxicity - single exposure :

The inhalation of the vapors can cause somnolences and giddinesses.

Specific target organ systemic toxicity - repeated exposure :

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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.

Other information

Contact with skin destroys the lipoacid skin layer and may cause dermatitis.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 108-88-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Any flow in the natural environment must be avoided.

12.1. Toxicity

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The product evaporates into the atmosphere.

Insoluble, the product spread on the surface of the water.

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 2 (VwVwS vom 27/07/2005, KBws) : 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.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

14 06 03 * other solvents and solvent mixtures

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 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

1294

14.2. UN proper shipping name

UN1294=TOLUENE

14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

II

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	II	3	33	1 L	-	E2	2	D/E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	3	-	II	1 L	F-E,S-D	-	E2			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	II	353	5 L	364	60 L	-	E2	
	3	-	II	Y341	1 L	-	-	-	E2	

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 MARPOL73/78 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:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- 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.

- Container information:

No data available.

- Particular provisions :

No data available.

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

WGK 2 (VwVwS vom 27/07/2005, KBws) : 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 utilisé 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 .

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Harmful



Highly flammable

Contains :

601-021-00-3

TOLUENE

Risk phrase :

R 38

Irritating to skin.

R 48/20

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 11

Highly flammable.

R 63

Possible risk of harm to the unborn child.

R 65

Harmful: may cause lung damage if swallowed.

R 67

Vapours may cause drowsiness and dizziness.

Safety phrase :

S 36/37

Wear suitable protective clothing and gloves.

S 16

Keep away from sources of ignition - No smoking.

S 60

This material and its container must be disposed of as hazardous waste.

S 62

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S 9

Keep container in a well-ventilated place.

S 41

In case of fire and/or explosion do not breathe fumes.

Product submitted to restrictions on the marketing and use: see Regulation (EC) No 1907/2006.

Title for H, EUH and R indications mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
R 11	Highly flammable.
R 38	Irritating to skin.
R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 63.G3	Possible risk of harm to the unborn child.
R 65	Harmful: may cause lung damage if swallowed.
R 67	Vapours may cause drowsiness and dizziness.

Abbreviations :

CMR: Carcinogenic, mutagenic or reprotoxic.

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