SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Product form: Mixture

Product name: PRO-FILL 601

UFI: DQ00-90SH-T00N-4J5U

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

1.2.1. Relevant identified uses

Industrial/Professional use spec: Industrial - For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NAVIC
27B1, Polidefkous St.
185 45 Piraeus
Greece.

Tel: +30 210 4225 145
www.navic-chemicals.com

1.4. Emergency telephone number

Emergency number: +30 210 7793 777 - (National Poison Helpline, GREECE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2:	H315
Serious eye damage/eye irritation, Category 2:	H319
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):

GHS02 GHS07 GHS08

Signal word (CLP):	Danger
Contains:	Reaction mass of ethylbenzene and m-xylene and p-xylene.
Hazard statements (CLP):	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP):	P260 - Do not breathe vapours. P280 - Wear protective gloves, face protection, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340+P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of ethylbenzene and m-xylene and p-xylene	EC-No.: 905-562-9 REACH-no: 01-2119488216-32	< 25	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

butanone; ethyl methyl ketone substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	<2.8	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact: Wash with plenty of water. Take off immediately all contaminated clothing. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects: Causes damage to organs.

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: Causes skin irritation.

Symptoms/effects after eye contact: Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapour.

Explosion hazard: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Avoid breathing vapours. Use only outdoors or in a well-ventilated area.

Hygiene measures: Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from excessive heat and humidity. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available.

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

Reaction mass of ethylbenzene and m-xylene and p-xylene	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	442 mg/m³
Acute - local effects, inhalation	293 mg/m³
Long-term - systemic effects, dermal	180 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	77 mg/m3
Long-term - local effects, inhalation	221 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	260 mg/m³
Acute - local effects, inhalation	260 mg/m³
Long-term - systemic effects,oral	1.6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	15 mg/m³
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day
Long-term - local effects, inhalation	65.3 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	44 µg/L
PNEC aqua (marine water)	4.4 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	2.52 µg/kg dwt
PNEC sediment (marine water)	252 µg/kg dwt
PNEC (Soil)	
PNEC soil	852 µg/kg dwt

PNEC (STP)	
PNEC sewage treatment plant	1.6 mg/l

butanone; ethyl methyl ketone (78-93-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1161 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	600 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	31 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	106 mg/m³
Long-term - systemic effects, dermal	412 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	55.8 mg/l
PNEC aqua (marine water)	55.8 mg/l
PNEC aqua (intermittent, freshwater)	55.8 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	284.74 mg/kg dwt
PNEC sediment (marine water)	284.7 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	709 mg/l

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available.

8.2.2. Personal protection equipment

Personal protective equipment: Avoid all unnecessary exposure.
Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses.

8.2.2.2. Skin protection

Skin and body protection:	Wear suitable protective clothing.
Hand protection:	Wear protective gloves. Suitable materials for safety gloves (EN 374): Butyl rubber, Nitrile rubber, neoprene rubber. For prolonged or repeated exposure, gloves of class 5 or higher are recommended (breakthrough time > 240min according to EN374). For short time use, gloves of class 3 or higher are recommended (breakthrough time > 60min according to EN374). The thickness of gloves should be > 0.35mm in order to provide adequate protection for prolonged contact with the product.

8.2.2.3. Respiratory protection

Respiratory protection:	If concentration of one or more substances present in the product exceeds the exposure limit, use respiratory protective device (refer to EN 529).

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

Other information:	Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Black.
Odour	Characteristic.
Odour threshold	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flammability	Highly flammable liquid and vapour.
Explosive properties	Not applicable, product is not explosive.
Oxidising properties	Not applicable, product is not oxidising.
Lower explosion limit	Not available.
Upper explosion limit	Not available.
Flash point	20 °C.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not applicable.
Viscosity, kinematic	> 20.5 mm²/s.
Solubility	Not available.
Partition coefficient n-octanol/water (Log Kow)	Not available.
Vapour pressure	Not available.
Vapour pressure at 50 °C	Not available.
Density	Not available.
Relative density	Not available.
Relative vapour density at 20 °C	Not available.
Particle characteristics	Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral): Not classified.
Acute toxicity (dermal): Not classified.
Acute toxicity (inhalation): Not classified.

Reaction mass of ethylbenzene and m-xylene and p-xylene	
LD50 oral rat	3,523 mg/kg bodyweight
LD50 dermal rabbit	12,126 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	27,124 mg/l/4h

Skin corrosion/irritation: Causes skin irritation.
pH: Not applicable.

Serious eye damage/irriation: Causes serious eye irritation.
pH: Not applicable.

Respiratory or skin sensitisation: Not classified.

Additional information: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Not classified.

Additional information: Based on available data, the classification criteria are not met.

Carcinogenicity: Not classified.

Additional information: Based on available data, the classification criteria are not met.

Reproductive toxicity: Not classified.

Additional information: Based on available data, the classification criteria are not met.

STOT-single exposure: May cause respiratory irritation.

Reaction mass of ethylbenzene and m-xylene and p-xylene	
STOT-single exposure	May cause respiratory irritation.

butanone; ethyl methyl ketone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Reaction mass of ethylbenzene and m-xylene and p-xylene	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified.

Additional information: Based on available data, the classification criteria are not met.

PRO-FILL 601	
Viscosity, kinematic	> 20.5 mm²/s.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available.

11.2.2. Other information

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute): Not classified.
Hazardous to the aquatic environment, long–term (chronic): Not classified.

Reaction mass of ethylbenzene and m-xylene and p-xylene	
LC50 - Fish [1]	2.6 mg/l LC50 96h fish
NOEC chronic fish	1.29 mg/l

butanone; ethyl methyl ketone (78-93-3)	
LC50 - Fish [1]	2.993 g/l LC50 96h fish

12.2. Persistence and degradability

PRO-FILL 601	
Persistence and degradability	Not established.

Reaction mass of ethylbenzene and m-xylene and p-xylene	
Persistence and degradability	Rapidly degradable.

butanone; ethyl methyl ketone (78-93-3)	
Persistence and degradability	Rapidly degradable.

12.3. Bioaccumulative potential

PRO-FILL 601	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Endocrine disrupting properties

No additional information available.

12.7. Other adverse effects

Additional information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information: Handle empty containers with care because residual vapours are flammable.
Ecological information: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID.

14.1. UN number or ID number

UN-No. (ADR): UN 1993
UN-No. (IMDG): UN 1993
UN-No. (IATA): UN 1993
UN-No. (ADN): Not regulated
UN-No. (RID): Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR):	FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IMDG):	FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA):	Flammable liquid, n.o.s.
Proper Shipping Name (ADN):	Not regulated.
Proper Shipping Name (RID):	Not regulated.
Transport document description (ADR):	UN 1993 FLAMMABLE LIQUID, N.O.S. (Reaction mass of ethylbenzene and m-xylene and p-xylene, butanone; ethyl methyl ketone), 3, II, (D/E).
Transport document description (IMDG):	UN 1993 FLAMMABLE LIQUID, N.O.S. (Reaction mass of ethylbenzene and m-xylene and p-xylene, butanone; ethyl methyl ketone), 3, II.
Transport document description (IATA):	UN 1993 Flammable liquid, n.o.s. (Reaction mass of ethylbenzene and m-xylene and p-xylene, butanone; ethyl methyl ketone), 3, II.

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR): 3
Danger labels (ADR): 3

IMDG

Transport hazard class(es) (IMDG): 3
Danger labels (IMDG): 3

IATA

Transport hazard class(es) (IATA): 3
Danger labels (IATA): 3

ADN

Transport hazard class(es) (ADN): Not regulated

RID

Transport hazard class(es) (RID): Not regulated

14.4. Packing group

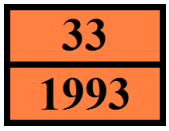
Packing group (ADR): II
Packing group (IMDG): II
Packing group (IATA): II
Packing group (ADN): Not regulated.
Packing group (RID): Not regulated.

14.5. Environmental hazards

Dangerous for the environment:	No.
Marine pollutant:	No.
Other information:	No supplementary information available.

14.6. Special precautions for user

Overland transport

Classification code (ADR):	F1
Special provisions (ADR):	274, 601, 640C
Limited quantities (ADR):	1l
Excepted quantities (ADR):	E2
Packing instructions (ADR):	P001
Mixed packing provisions (ADR):	MP19
Portable tank and bulk container instructions (ADR):	T7
Portable tank and bulk container special provisions (ADR):	TP1, TP8, TP28
Tank code (ADR):	L1.5BN
Vehicle for tank carriage:	FL
Transport category (ADR):	2
Special provisions for carriage - Operation (ADR):	S2, S20
Hazard identification number (Kemler No.):	33
Orange plates:	
Tunnel restriction code (ADR):	D/E

Transport by sea

Special provisions (IMDG):	274
Limited quantities (IMDG):	1 L
Excepted quantities (IMDG):	E2
Packing instructions (IMDG):	P001
IBC packing instructions (IMDG):	IBC02
Tank instructions (IMDG):	T7
Tank special provisions (IMDG):	TP1, TP28, TP8
EmS-No. (Fire):	F-E
EmS-No. (Spillage):	S-E
Stowage category (IMDG):	B

Air transport

PCA Excepted quantities (IATA):	E2
PCA Limited quantities (IATA):	Y341
PCA limited quantity max net quantity (IATA):	1 L
PCA packing instructions (IATA):	353
PCA max net quantity (IATA):	5 L
CAO packing instructions (IATA):	364

CAO max net quantity (IATA):	60 L
Special provisions (IATA):	A3
ERG code (IATA):	3H

Inland waterway transport

Not regulated.

Rail transport

Not regulated.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)
Contains no REACH substances with Annex XVII restrictions.
REACH Annex XIV (Authorisation List)
Contains no REACH Annex XIV substances.
REACH Candidate List (SVHC)
Contains no substance on the REACH Candidate List.
PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).
POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).
Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer).
Dual-Use Regulation (428/2009)
Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.
Explosives Precursors Regulation (2019/1148)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).
Drug Precursors Regulation (273/2004)
Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information: None.

Full text of H- and EUH- statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4.
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3.
Asp. Tox. 1	Aspiration hazard, Category 1.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.
Flam. Liq. 2	Flammable liquids, Category 2.
Flam. Liq. 3	Flammable liquids, Category 3.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation.