



PRODUCT SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **FABRIC PROTECTOR ET 400**

Article number: 15-00000-1240

Application of the substance / the preparation: Hydrophobing agent/ water repellent

Supplier: Fortron Marketing & Distribution, Farringdon Road, Cumnor, Oxford OX2 9RE

Emergency information: Emergency Phone Number : 07976540170 or 079767339153

2. Hazards identification

Hazard description: F+ Extremely flammable

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Buildup of explosive mixtures possible without sufficient ventilation.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GHS label elements

Flame Danger

H222 - Extremely flammable aerosol.

exclamation mark Warning

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P251 Pressurized container: Do not pierce or burn, even after use.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).

Storage:

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients**Chemical characterization**

Description: Active substance with propellant

Dangerous components:

106-97-8 butane (containing < 0.1% butadiene (203-450-8)) F+; R 12 Danger: flame 2.2/1 Warning: gas cylinder 2.5/C EINECS: 203-448-7	25-<50 %
64742-49-0 Naphtha (petroleum), hydrotreated light Xn, Xi, F, N; R 11-38-51/53-65-67 Danger: flame 2.6/2; health hazard 3.10/1 Warning: exclamation mark 3.2/2, 3.8/3 environment 4.1.C/2 EINECS: 265-151-9	10-<25 %
67-63-0 propan-2-ol Xi, F; R 11-36-67 Danger: flame 2.6/2 Warning: exclamation mark 3.3/2, 3.8/3 EINECS: 200-661-7	10-<25 %
64742-48-9 Naphtha (petroleum), hydrotreated heavy Xn; R 10-65-66 Danger: health hazard 3.10/1 Warning: flame 2.6/3 EINECS: 265-150-3	10-<25 %
123-86-4 n-butyl acetate R 10-66-67 Warning: flame 2.6/3; exclamation mark 3.8/3 EINECS: 204-658-1	2.5-<10 %

74-98-6 propane F+; R 12 Danger: flame 2.2/1 Warning: gas cylinder 2.5/C EINECS: 200-827-9	2.5-<10 %
34590-94-8 (2-methoxymethylethoxy)propanol EINECS: 252-104-2	2.5-<10 %
108-21-4 isopropyl acetate Xi, F; R 11-36-66-67 Danger: flame 2.6/2 Warning: exclamation mark 3.3/2, 3.8/3 EINECS: 203-561-1	1.0-<2.5 %

4. First-aid measures

- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Generally the product does not irritate the skin.
- After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:** Do not induce vomiting; call for medical help immediately.

5. Fire-fighting measures

- Suitable extinguishing agents:** Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam
- For safety reasons unsuitable extinguishing agents:** Water with full jet
- Protective equipment:** Mount respiratory protective device.

6. Accidental release measures

- Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:** Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- Measures for cleaning/collecting:** Ensure adequate ventilation.

7. Handling and storage

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurized containers.

Further information about storage conditions:

Keep receptacle tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane (containing < 0.1% butadiene (203-450-8))

WEL: Short-term value: 1810 mg/m³, 750 ppm

Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

67-63-0 propan-2-ol

WEL: Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

123-86-4 n-butyl acetate

WEL: Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

74-98-6 propane

WEL: Short-term value: 3600 mg/m³, 2000 ppm

Long-term value: 1800 mg/m³, 1000 ppm

34590-94-8 (2-methoxymethylethoxy)propanol

WEL: Long-term value: 308 mg/m³, 50 ppm

Sk

108-21-4 isopropyl acetate

WEL: Short-term value: 849 mg/m³, 200 ppm

Additional information:

The lists valid during the making were used as basis.

Personal protective equipment:**General protective and hygienic measures:**

Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter AX/P2

Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Protective gloves
Solvent resistant gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Use protective suit.

9. Physical and chemical properties**General Information**

Form: Aerosol

Colour: According to product specification

Odour: Characteristic

Value/Range Unit Method

Change in condition:

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: -44 °C

Flash point: -97 °C

Ignition temperature: 200 °C

Self-igniting: Product is not selfigniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 0.6 Vol %

Upper: 12.0 Vol %

Vapour pressure: at 20 °C 4 bar

Density: at 20 °C 0.649 g/cm³

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

Solvent content:

Organic solvents: 100.0 %

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Materials to be avoided:

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products:

No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-49-0 Naphtha (petroleum), hydrotreated light
Oral: LD50: 4300-6000 mg/kg (rat)
Dermal: LD50: >3000 mg/kg (rabbit)
Inhalative: LC50/4h: >60 mg/l (rat)

67-63-0 propan-2-ol
Oral: LD50: 4570 mg/kg (rat)
Dermal: LD50: 13400 mg/kg (rabbit)
Inhalative: LC50/4 h: 30 mg/l (rat)

64742-48-9 Naphtha (petroleum), hydrotreated heavy
Oral: LD50: >5000 mg/kg (rat)
Dermal: LD50: >3000 mg/kg (rabbit)

108-21-4 isopropyl acetate
Oral: LD50: 9800 mg/kg (rat)

Primary irritant effect:

On the skin: No irritant effect.

On the eye: No irritating effect.

Sensitization: No sensitizing effects known.

12. Ecological information

Ecotoxicological effects:

Acquatic toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light
LC50: 35-37 mg/l (Fish)

Remark: Harmful to fish

Additional ecological information:

General notes: Harmful to aquatic organisms

13. Disposal considerations

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 2 5F Gases.

Danger code (Kemler): -

UN-Number: 1950

Packaging group: -

Hazard label 2.1

Description of goods: 1950 AEROSOLS

Limited quantities (LQ) LQ2

Transport category 2

Tunnel restriction code D

Maritime transport IMDG:

IMDG Class: 2.1

UN Number: 1950

Label 2.1

Packaging group: -

EMS Number: F-D,S-U

Marine pollutant: No

Proper shipping name: AEROSOLS

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 2.1

UN/ID Number: 1950

Label 2.1

Packaging group: -

Proper shipping name: AEROSOLS, flammable

UN "Model Regulation": UN1950, AEROSOLS, 2.1

15. Regulatory information

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product: F+ Extremely flammable

Risk phrases:

- 12 Extremely flammable.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition — No smoking.
- 23 Do not breathe fumes/aerosol.
- 24/25 Avoid contact with skin and eyes.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Buildup of explosive mixtures possible without sufficient ventilation.

National regulations:

Technical instructions (air):

Class Share in %

NK 50-100

VOC-CH 100.00 %

VOC-EU 649.0 g/l

Danish MAL Code 5-3

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Health & Safety Department

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent