



SAFETY DATA SHEET

Product name TOP 1FR	Product No. 2220-10/20	Date of issue 21.08.2012	Reg. No. VI-2220-10/20-4	
		Issued by E.Nordenberg	Approved by B.Wettermark	
		Rev. date 01.06.2015	Rev. 1	Page 1(7)

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

1.1 Product identifier

Product name: TOP 1FR
Product number: 2220-10/20

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

Chemical/technical description: Paint product
Field of application: Protective lacquer for fire retarding systems

1.3 Details of the supplier of the safety data sheet

Company: Protega AB
Address: Verkstadsgatan 6B
SE-231 66 TRELLEBORG, SWEDEN
Contact person: Björn Wettermark or Emma Nordenberg
Phone: +46 410 567 80
Fax: +46 410 567 89
E-mail: info@protega.se
Website: www.protega.se

1.4 Emergency telephone number

Emergency, daytime: + 46 410 567 80, other time: Local emergency number.

2. Hazards identification

2.1 Classification of the substance or mixture

The preparation is classified as a health or environmental hazard according to CLP-Regulation (EC) No 1272/2008.

Flam. Liq. 3 H226 Flammable liquid and vapour.
ASP.Tox.1 H304 May be fatal if swallowed and enters airways.
Acute tox.4 H312 Harmful in contact with skin.
Skin Irrit.2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Acute tox.4 H332 Harmful if inhaled.
STOT SE3 H335 May cause respiratory irritation.
STOT SE3 H336 May cause drowsiness or dizziness.
STOT RE1 H372 Causes damage to organs through prolonged or repeated exposure
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
EUH 066 Repeated exposure may cause skin dryness or cracking.

2.2 Label Elements

Labelling according to CLP Regulation 1272/2008 / EC.



Symbol:

GHS Pictograms: GHS02, GHS08

Signalword: Danger

Hazard Statement: H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
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H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure
H412 Harmful to aquatic life with long lasting effects.
EUH 066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statement:

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301-P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Storage: P403+P235 Store in a well-ventilated place. Keep cool.
Disposal: P501 Dispose of contents/container to local regulations.

Further information

Contains: Naphta (petroleum), n-Butyl acetate, Xylen

“Only for professional use”

2.3 Other hazards

Health hazard:

Long lasting and repeated exposure to solvent vapors above the limit may result seriously detrimental to health such as mucous membrane and respiratory and may cause permanent nerve damage

Fire:

Prevent formation of flammable or explosive concentrations of vapor in air. Avoid vapor concentrations above the occupational exposure limits. Ventilate well. Open flame or other ignition sources may not occur. The product may build up electrostatic charges. Ground all equipment. Prevent sparks from static electricity. Operators should wear antistatic footwear and clothing

Physical / Chemical Hazards:

May cause damage to seals, certain painted surfaces, protective grease layers and materials of natural rubber.

3. Composition / information on ingredients

3.2 Compounds

Substance:

Nafta (petroleum)

CAS-nr: 64742-82-1

EG-nr: 919-446-0

Registrerings nr: 01-2119458049-33-0000

Väteavsvavlad tung (14-20%) aromater (innehåller bensen <0,1 vol%)

Ämnen:

Xylen

CAs-nr: 1330-20-7

EG-nr: 215-535-7

Registrerings nr: 01-211948821632xxxx

Index nr: 601-022-00-9

Classification

Flam. Liq. 3; H226

Asp. Tox 1; H304

STOT RE1; H372

STOT SE3; H336

Aquatic Chronic 2; H411

EUH 066

Klassificering

Flam Liq. 3; H226

Acute tox. 4; H332

Acute tox. 4; H312

Skin Irrit. 2; H315

Eye Irrit.2; H319

Asp. Tox.1; H304

STOT SE3; H335

STOT RE2; H373

Amount %

<25

Halt %

10-20

Substance: n-Butylacetat CAS-ne: 123-86-4 <i>EG-nr:</i> 204-658-1 <i>Registrerings nr:</i> 01-2119485493-29-0000 <i>Indexnr:</i> 607-025-00-1 <i>The full text of the R-phrases can be found in section 16.</i>	Classification <i>Flam. Liq. 3; H226</i> <i>STOT SE3; H336</i>	Amount % 1-5
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4. First-aid measures

4.1 Description of first aid measures

General information:	<i>In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.</i>
Inhalation:	<i>Remove to fresh air. Keep person warm and at rest. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.</i>
Eye contact:	<i>Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, keeping the eyelids open. Seek medical advice.</i>
Skin contact:	<i>Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do not use solvents or thinners.</i>
Ingestion:	<i>If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.</i>

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	<i>Inhalation may cause headache, dizziness, fatigue and nausea. Long lasting and repeated exposure to solvent vapors above limits can cause seriously detrimental to health such as mucous membrane and respiratory system irritation and may cause permanent nerve damage.</i>
Skin contact:	<i>Repeated or prolonged contact may dry and irritate the skin and may cause skin dryness or cracks</i>
Eye contact:	<i>Eye contact causes irritation</i>
Ingestion:	<i>May cause vomiting, stomach pains and same symptoms as by inhalation of vapors. Because of "naphtha" (see point 3) there is a risk for lung damage if swallowed</i>

4.3 Indication of any immediate medical attention and special treatment needed

<i>Other information</i>	<i>Treat symptomatically</i>
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5. Fire-fighting measures

5.1 Extinguishing media

Recommended extinguishing media: Alcohol resistant foam, CO₂, powders, water spray. Do not use water jet. Do not allow run-off from the fire fighting to enter drains or watercourses.

5.2 Special hazards arising from the substance or mixture

Vapors are heavier than air and may spread along the ground. Vapours can form explosive mixtures with air and ignited by example static electricity.

5.3 Advice for fire fighters

Use breathing apparatus and full protective clothing. Avoid inhalation of vapors. Alert the emergency. Move container standing near fire, otherwise cool them with water. Remove combustible materials. Do not allow spillage from fire fighting enter drains or watercourses

6. Accidental release measures

6.1 Personal protections, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid inhalation of vapors.

6.2 Environmental precautions

Contain and collect spillage with non-combustible absorbent materials e.g. earth, sand or other inert material. Prevent entry into drains and watercourses. If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Spillage with non-combustible material such as sand, earth and place in container for disposal according

to local regulations. Clean preferably with a detergent, avoid use of solvents. Exclude sources of ignition and ventilate the area.

6.4 Reference to other sections

See Section 1 for emergency contact information

See Section 7 for protective measures

See Section 8 regard personal protective equipment

See section 13 regard waste management.

7. Handling and storage

7.1 Precautions for safe handling

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Ventilate well.

In addition, the product should only be used in areas from which all-naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep container tightly closed. Keep away from heat, sparks and flame. No sparkling tools should be used. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Personal safety equipment see section 8

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with current regulations for flammable goods. Observe label precautions. Store between 5-25°C. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

Not available

8. Exposure control / personal protection

8.1 Control parameters

Substances with an exposure limit:

Substance:	long-term exposure		short-term exposure		Comments
	ppm	mg/m ³	ppm	mg/m ³	
Nafta:	50	300	100	600	
Xylen	50	200	100	450	Sk
Butyl acetate	100	500	150	700	
Ethylbenzene	50	200	100	450	Sk

(Sk: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

8.2 Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the occupational exposure limit, suitable respiratory protection must be worn.

Respiratory protection:

When exposure to concentrations above the exposure limit occurs, appropriate certified respirators must be used. When spraying, use respiratory protection, half or full mask.

Hand, skin protection:

When prolonged or direct contact can not be excluded, use gloves recommended by the supplier. Barrier-creams could be used to protect the skin against exposure. The cream should however not be applied on the skin, if the skin already has been exposed to the preparation. To avoid other type of direct contact, suitable protective clothes are recommended.

Eye protection:

Use safety eyewear designed to against splash of liquids.

Thermal hazard:

Flammable product.

Environmental exposure controls:

Avoid releases to water and drain.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Varnish with an odour of solvents
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not available
pH:	Not available
Melting/boiling range:	125°C
Flash point:	27°C
Evaporation rate:	Not available
Flammability:	Combustible material.
Flammability limits in air:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Density:	1060 kg/m ³
Solubility:	Not miscible with water
Partition coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	ca 2000 mPa s, Brookfield RV, Sp 5, 60 r.p.m 23°C
Explosive properties:	Explosion limits: 1-8 vol%
Oxidising properties:	Not available
Volatile % (w/w):	50%

9.2 Other information

Physical and chemical properties VOC (bp <250°): 499 g/l.

10. Stability and reactivity

10.1 Reactivity

There is no test data for the reactivity of this product.

10.2 Chemical stability

The products is stable at recommended storing and handling conditions (see section 7)

10.3 Possibility of hazardous reactions

Keep away from oxidizing agents and static electricity.

10.4 Conditions to avoid

Not available

10.5 Incompatible materials

No special restrictions

10.6 Hazardous decomposition products

No information available

11. Toxicological information

11.1 Information on toxicological effects

There are no data available for the product itself. The preparation has been assessed following the conventional method of the CLP-Regulation (EC) No 1272/2008 and is classified for its toxicological hazards. See Sections 3 and 15 for more details. Exposure to solvent vapours above the occupational exposure limit may result in adverse health effects such as irritation of the mucous membranes and respiratory system and can cause adverse effects on kidneys, liver and central nervous system. Organic solvents may cause some of the above effects through skin absorption. Other symptoms may include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Repeated or prolonged contact may defat the skin resulting in non-allergic contact dermatitis through skin. Splashes in the eyes may cause irritation and reversible damage.

Acute toxicity:

Product / ingredient name	Result	Art	Dos
Nafta (petroleum)	LD ₅₀ Oralt	Råtta	>2000 mg/kg
	LD ₅₀ Dermal	Kanin	>2000mg/kg
	LC ₅₀ Inhalerat	Råtta	4h 3400 ppm

Xylen	LD ₅₀ Oralt	Råtta	3900mg/kg
	LC ₅₀ Inandning	Råtta	4h 20,0 mg/l
Butylacetat	LD ₅₀ Oralt	Råtta	10768 mg/kg
	LC ₅₀ Inhalerat	Råtta	4h 9,6 mg/l
	LD ₅₀ Dermal	Kanin	>17600mg/kg

Irritation: *Inhalation: Exposure to component solvents vapours concentration in excess of the 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. Symptoms and sign include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Skin contact: May cause some of the above effects by absorption through the skin. Prolonged or repeated direct contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Eye contact: Splashes in the eyes may cause irritation and reversible damage. Ingestion: May cause vomiting, stomach ache in addition to the symptoms that may arise when the product is inhaled.*

Corrosive effect: *Preparation is not corrosive.*

Sensitisation: *No known risks of allergy, but the drying effects of butyl acetate may contribute to atopic eczema.*

Repeated dose toxicity:	Not known
Carcinogenicity:	Not known
Mutagenic effects:	Not known
Reproductive toxicity:	Not known
Fetal damage:	Not known
Other information:	Not known

12. Ecological information

There are no data available on the preparation itself.

The preparation has been assessed following the conventional method of the CLP-Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains a substance that is classified as dangerous to the environment. See section 2 and 3 for details. Do not allow the preparation to enter drains and watercourses.

12.1 Toxicity

Product / ingredient name

<i>Nafta (petroleum):</i>	<i>BOD_{>=60%} efter 28 dagar.</i>
<i>Xylen</i>	<i>LC₅₀ Fish 96h: 2mg/l Art: Roccus saxatilis</i> <i>EC₅₀ Daphnia 48h: 8,5mg/l Art: D. magna</i> <i>IC₅₀ Seaweed 72h: 3,2mg/l Art: Selenastrum capicosmutum</i>
<i>Butylacetat:</i>	<i>LC₅₀ Fish 96h: 18mg/l Art: Pimephales promelas</i> <i>EC₅₀ Daphnia 48h: 10-100mg/l</i> <i>IC₅₀ Seewead 72h: 674,7mg/l Art: Scenedesmus subspicatus</i>

Naphtha (petroleum) is toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Ecotoxicological data are not available for the product itself.

Do not allow the preparation to enter drains and watercourses.

12.3 Bioaccumulative potential

Bioaccumulability may be possible (Estimated log Pow: 2-7)

12.4 Mobility in soil

The product evaporates relatively fast from the water and ground surface. If large amount are released to the ground, there is a risk that the product moves down through the ground and harms the ground water.

12.5 Results of PBT and VPVB assesment

Not available

12.6 Other adverse effects

Easily biodegraded. Is biodegraded relatively fast by naturally existing microorganisms.

13. Disposal considerations

13.1 Waste treatment methods

Do not allow to enter drains and watercourses. Waste should be disposed of according to local regulation. Liquid remains of the preparation have EWC-code (European Waste Catalogue): 08 01 11

14. Transport information

14.1 UN-number	1263
14.2 Proper shipping name	Paint
14.3 Transport hazard class(es)	ADR (road): Class: 3 IMDG (sea): Class: 3 IATA (air): Class: 3
14.4 Packing group	III
14.5 Environmental hazards	Product is not classified dangerous for the environment.
14.6 Special precautions for user	EmS Nr. F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC-kod	Not applicable

Transport by the user: Always transport the product in sealed package, upright. Ensure that persons transporting the product know what to do in case of an accident or spillage

15. Regulatory information

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

Regulations: The safety data sheet is prepared in according to Annex II of the REACH Regulation (EC) No. 1907/2006. Classification according to CLP-Regulation (EC) No 1272/2008.

Other notes: WKG 2

15.2 Chemical safety assessment:

No information available.

16. Other information

Full text of phrases appearing in section 3:

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.

H372 Causes damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects.

EUH 066 Repeated exposure may cause skin dryness or cracking.

The information in this data sheet is based on the present state of our knowledge, seen from the current regulations. The user handling of the product are beyond our control opportunity.