SAFETY DATA SHEET

Protega Top 1FR Eco

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

1.1. Product identifier

Trade name:	Protega Top 1FR Eco
Product no.:	2220-15, -25

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

Relevant identified uses of the substance or mixture:	Paint
Uses advised against :	No special

1.3. Details of the supplier of the safety data sheet

Company and address:	**Protega AB** Verkstadsgatan 6B 23166 Trelleborg, Sverige +46 410 56 780
E-mail:	info@protega.se, www.protega.se
SDS date:	2021-05-19
SDS Version:	3.0
Date of previous version:	2021-05-18 (2.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.

Eye Irrit. 2; H319, Causes serious eye irritation.

STOT SE 3; H335, May cause respiratory irritation.

STOT SE 3; H336, May cause drowsiness or dizziness.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Safety statement(s):
General
-
▼Prevention
P210, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240, Ground and bond container and receiving equipment.
P280, Wear eye protection / protective gloves / protective clothing.

Response

P337+P313, If eye irritation persists: Get medical advice/attention.
P370+P378, In case of fire: Use water mist / carbon dioxide / alcohol-resistant foam to extinguish.

Storage

P403+P235, Store in a well-ventilated place. Keep cool.

Disposal

P501, Dispose of contents/container to an approved waste disposal plant.

▼Hazardous substances: Aliphatic acid ester 2
ethyl lactate;ethyl (S)-2-hydroxypropionate;ethyl DL-lactate;ethyl L-lactate;ethyl-(S)-lactate

2.3. Other hazards

Additional labelling: EUH066, Repeated exposure may cause skin dryness or cracking.

Additional warnings: This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

VOC: VOC content: 500 g/L
MAXIMUM VOC CONTENT (Phase II, category A/i (SB): 500 g/L)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Aliphatic acid ester 2	CAS No.: EC No.: REACH: Index No.:	15-25%	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	
ethyl lactate;ethyl (S)-2-hydroxypropionate;ethyl DL-lactate;ethyl L-lactate;ethyl-(S)-lactate	CAS No.: 687-47-8 EC No.: 211-694-1 REACH: 01-2119516234-49-XXXX Index No.: 607-129-00-7	15-25%	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335	
Aliphatic alcohol	CAS No.: EC No.: REACH: Index No.:	10-15%	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
Ester of aliphatic acid	CAS No.: EC No.: REACH: Index No.:	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	

m-xylene;o-xylene;p-xylene;xylene	CAS No.: 1330-20-7 EC No.: 215-535-7 REACH: 01-2119488216-32-XXXX Index No.: 601-022-00-9	<1%	Flam. Liq. 3, H226 Acute Tox. 4, H312 Skin Irrit. 2, H315 Acute Tox. 4, H332	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation: Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact: IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact: Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion: Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns: Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics: Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon

dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on “Disposal considerations” in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical / lighting / ventilating]equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

▼7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material: Always store in containers of the same material as the original container.

▼Storage temperature: 5°C < T < 35°C

Incompatible materials: Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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m-xylene;o-xylene;p-xylene;xylene

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m³): 220

Short term exposure limit (15 minutes) (ppm): 100

Short term exposure limit (15 minutes) (mg/m³): 441

Annotations:

BMVG = Biological Monitoring Guidance Value exists

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

Product/substance:	Aliphatic acid ester 2
DNEL:	300 mg/m3
Route of exposure:	Inhalation
Duration:	Long term – Systemic effects - Workers

Product/substance:	Aliphatic acid ester 2
DNEL:	11 mg/kg bw/day
Route of exposure:	Dermal
Duration:	Long term – Systemic effects - Workers

Product/substance:	Aliphatic acid ester 2
DNEL:	600 mg/m3
Route of exposure:	Inhalation
Duration:	Short term – Systemic effects - Workers

Product/substance:	Aliphatic acid ester 2
DNEL:	11 mg/kg bw/day
Route of exposure:	Dermal

Duration:	Short term – Systemic effects - Workers

Product/substance:	Aliphatic acid ester 2
DNEL:	300 mg/m3
Route of exposure:	Inhalation
Duration:	Long term – Local effects - Workers

Product/substance:	Aliphatic acid ester 2
DNEL:	600 mg/m3
Route of exposure:	Inhalation
Duration:	Short term – Local effects - Workers

Product/substance:	Aliphatic alcohol
DNEL:	950 mg/m3
Route of exposure:	Inhalation
Duration:	Long term – Systemic effects - Workers

Product/substance:	Aliphatic alcohol
DNEL:	343 mg/kg bw/day
Route of exposure:	Dermal
Duration:	Long term – Systemic effects - Workers

Product/substance:	Aliphatic alcohol
DNEL:	1900 mg/m3
Route of exposure:	Inhalation
Duration:	Short term – Systemic effects - Workers

Product/substance:	Ester of aliphatic acid
DNEL:	734 mg/m3
Route of exposure:	Inhalation
Duration:	Long term – Systemic effects - Workers

Product/substance:	Ester of aliphatic acid
DNEL:	63 mg/kg bw/day
Route of exposure:	Dermal
Duration:	Long term – Systemic effects - Workers

Product/substance:	Ester of aliphatic acid
DNEL:	1468 mg/m3
Route of exposure:	Inhalation
Duration:	Short term – Systemic effects - Workers

Product/substance:	Ester of aliphatic acid
DNEL:	734 mg/m3
Route of exposure:	Inhalation
Duration:	Long term – Local effects - Workers

Product/substance:	Ester of aliphatic acid
DNEL:	1468 mg/m3
Route of exposure:	Inhalation
Duration:	Short term – Local effects - Workers

Product/substance:	m-xylene;o-xylene;p-xylene;xylene
DNEL:	289 mg/m3
Route of exposure:	Inhalation
Duration:	Short term – Systemic effects - Workers

Product/substance:	m-xylene;o-xylene;p-xylene;xylene
DNEL:	289 mg/m3

Route of exposure:	Inhalation
Duration:	Short term – Local effects - Workers
Product/substance:	m-xylene;o-xylene;p-xylene;xylene
DNEL:	180 mg/kg bw/day
Route of exposure:	Dermal
Duration:	Long term – Systemic effects - Workers
Product/substance:	m-xylene;o-xylene;p-xylene;xylene
DNEL:	77 mg/m3
Route of exposure:	Inhalation
Duration:	Long term – Systemic effects - Workers

PNEC

No data available

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure: No specific requirements

Individual protection measures, such as personal protective equipment

Generally: Use only CE marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
-	A	Class 1 (low capacity)	Brown	EN14387	

Skin protection:

Work situation	Recommended	Type/Category	Standards	
	Dedicated work clothing should be worn	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
	Nitrile	0.2	> 480	EN374-2, EN374-3, EN388	

Eye protection:

Work situation	Type	Standards	
	Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Transparent
Odour / Odour threshold:	Aromatic
pH:	Not applicable
Density (g/cm³):	1.05 (23.00 °C)
Kinematic viscosity:	2000.00 mPa.s (23.00 °C)
Particle characteristics:	Not applicable

Phase changes

Melting point/Freezing point (°C):	Not applicable
Softening point/range (waxes and pastes) (°C):	Does not apply to liquids.
Boiling point (°C):	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Decomposition temperature (°C):	Not applicable

Data on fire and explosion hazards

Flash point (°C):	No data available
Ignition (°C):	No data available
Auto flammability (°C):	No data available
Lower and upper explosion limit (% v/v):	Not applicable

Solubility

Solubility in water:	Insoluble
n-octanol/water coefficient:	No data available
Solubility in fat (g/L):	No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100):	No data available
VOC (g/l):	500

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory sensitisation:	Based on available data, the classification criteria are not met.
Skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Long term effects:	Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
Endocrine disrupting properties:	No special
Other information:	m-xylene;o-xylene;p-xylene;xylene has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

Product/substance:	Aliphatic acid ester 2
Biodegradable:	Yes
Test method:	OECD 301 D
Result:	80% efter 5 dagar, 83% efter 28 dagar

Product/substance:	ethyl lactate;ethyl (S)-2-hydroxypropionate;ethyl DL-lactate;ethyl L-lactate;ethyl-(S)-lactate
Biodegradable:	Yes
Test method:	
Result:	85%

Product/substance:	Aliphatic alcohol
Biodegradable:	Yes
Test method:	
Result:	84% på 20 dagar

Product/substance:	Ester of aliphatic acid
Biodegradable:	Yes
Test method:	
Result:	100% på 28 dagar

12.3. Bioaccumulative potential

Product/substance:	ethyl lactate;ethyl (S)-2-hydroxypropionate;ethyl DL-lactate;ethyl L-lactate;ethyl-(S)-lactate
Test method:	
Potential bioaccumulation:	No
LogPow:	0.31
BCF:	No data available
Other information:	

Product/substance:	Ester of aliphatic acid
Test method:	
Potential bioaccumulation:	No
LogPow:	No data available
BCF:	No data available
Other information:	

Product/substance:	m-xylene;o-xylene;p-xylene;xylene
Test method:	
Potential bioaccumulation:	No
LogPow:	No data available
BCF:	No data available
Other information:	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 3 - Flammable
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
Avoid discharge to lakes, streams, sewers, etc.
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

UN- or ID number	UN proper shipping name	Labels	PG	Tunnel restriction code
1263	PAINT	3	III	3 (D/E)

IMDG

UN- or ID number	UN proper shipping name	Labels	PG	EmS
1263	PAINT	3	III	F-E, S-E

MARINE POLLUTANT: No

IATA

UN- or ID number	UN proper shipping name	Labels	PG
1263	PAINT	3	III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restrictions for application:	Restricted to professional users. People under the age of 18 shall not be exposed to this product.
Demands for specific education:	No specific requirements
SEVESO - Categories / dangerous substances:	P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes
Additional information:	Not applicable
Sources:	Control of Major Accident Hazards (COMAH) Regulations 2015. 2005 No. 2773 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2005. Regulation (EU) No 1357/2014 of 18 December 2014 on waste. 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 (CLP).
Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H336, May cause drowsiness or dizziness.
EUH066, Repeated exposure may cause skin dryness or cracking.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.
H225, Highly flammable liquid and vapour.
H312, Harmful in contact with skin.
H315, Causes skin irritation.
H332, Harmful if inhaled.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit.

SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of physical hazards has been based on experimental data.

The safety data sheet is validated by

LES

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en