

according to Regulation (EC) No 1907/2006

# TUNGARD FD

Print date: 28.01.2021

Product code: 11ACH20301A0400

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

## 1.1. Product identifier

TUNGARD FD

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

Use of the substance/mixture

rust remover

### 1.3. Details of the supplier of the safety data sheet

Manufacturer		
Company name:	TUNAP GmbH & Co. KG	
Street:	Bürgermeister-Seidl-Str. 2	
Place:	D-82515 Wolfratshausen	
Telephone:	+ 49 (0) 8171/1600 - 0	Telefax: + 49 (0) 8171/1600 - 40
e-mail:	sdb@tunap.com	
Internet:	www.tunap.com	
Supplier		
Company name:	TUNAP UK Limited	
Street:	Unit L4 Deacon Trading Estate, Morley Road	
Place:	GB Tonbridge, Kent. TN9 1RA	
Telephone:	+44 (0)1732 365163	
e-mail:	sdb@tunap.com	
Internet:	www.tunap.co.uk	
1.4. Emergency telephone	111 NHS (National Health Service)	
<u>number:</u>		

### number.

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 3 Aspiration hazard: Asp. Tox. 1 Hazard Statements: Pressurised container: May burst if heated. May be fatal if swallowed and enters airways.

## 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Signal word: Warning

### **Hazard statements**

H229

Pressurised container: May burst if heated.

### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

54 % by mass of the contents are flammable.



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### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification	•	•	
64742-48-9	9 Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates			
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
124-38-9	carbon dioxide			1 - < 3 %
	204-696-9			

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

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

## Unsuitable extinguishing media

High power water jet.



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### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Danger of bursting container.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

## 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

See section 8.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### Advice on protection against fire and explosion

Heating causes rise in pressure with risk of bursting.

## 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

### Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### Further information on storage conditions

Protect from frost. Protect against direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

## 7.3. Specific end use(s)

No information available.

### **SECTION 8: Exposure controls/personal protection**



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### 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL

### Additional advice on limit values

a no restriction

b End of exposure or shift

c in long-term exposure: after several shifts d prior to next shift

TWA (EC): time-weighted average

U: Urea

B: Blood

## 8.2. Exposure controls

### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

### DINENTO

## Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min Thickness of the glove material 0,45 mm EN ISO 374

## Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

### **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. When exceeding the relevant workplace exposure limits, note the following: Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Filtering device with filter or ventilator filtering device of type: A Observe the wear time limits as specified by the manufacturer. Observe legal regulations and provisions.

## Environmental exposure controls

Observe legal regulations and provisions.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic



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		Test method
pH-Value (at 20 °C):	not applicable	DIN 19268
Changes in the physical state		
Melting point:	No information available.	
Initial boiling point and boiling range:	> 100 °C	
Sublimation point:	No information available.	
Softening point:	No information available.	
Flash point:	> 61 °C	
Lower explosion limits:	0,5 vol. %	
Upper explosion limits:	7 vol. %	
Ignition temperature:	No information available.	
Vapour pressure:	No information available.	
Density:	0,805 g/cm³	DIN 51757
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Partition coefficient:	No information available.	
Viscosity / dynamic:	No information available.	
Viscosity / kinematic:	4 mm²/s	
Flow time:	No information available.	
Vapour density:	No information available.	
Evaporation rate:	No information available.	
Solvent separation test:	No information available.	
Solvent content:	No information available.	
9.2. Other information		
Solid content:	No information available.	

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

## 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high



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concentrations or in enclosed spaces.

### **Further information**

Do not mix with other chemicals.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No information available.

### Acute toxicity

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
64742-48-9	Hydrocarbons, C10 - C13, n-alkanes	s, iso-alkane	s, cyclics, < 2 % a	aromates			
	oral	LD50	>8000 mg/kg	Rat			
	dermal	LD50	>3160 mg/kg	Rabbit			
	inhalation (4 h) vapour	LC50	4951 mg/l	Rat			

#### Irritation and corrosivity

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

## Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. No indications of human carcinogenicity exist. No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

### STOT-single exposure

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

### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

There are no data available on the mixture itself.



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CAS No	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source
64742-48-9	Hydrocarbons, C10 - C13, n-alk	anes, iso-a	alkanes, cyclics, < 2	2 % arom	nates	
	Acute fish toxicity	LC50	>1000 mg/l		Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	>1000 mg/l	96 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

No information available.

### **Further information**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.2
Classification code:	5A
Special Provisions:	190 327 344 625



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Limited quantity:	1 L		
Excepted quantity:	E0		
Transport category:	3		
Tunnel restriction code:	E		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	UN 1950		
14.2. UN proper shipping name:	AEROSOLS		
14.3. Transport hazard class(es):	2		
14.4. Packing group:	-		
Hazard label:	2.2		
Classification code:	5A		
Special Provisions:	190 327 344 625		
Limited quantity:	1 L		
Excepted quantity:	E0		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 1950		
14.2. UN proper shipping name:	AEROSOLS		
14.3. Transport hazard class(es):	2.2		
14.4. Packing group:	-		
Hazard label:	2.2		
Marine pollutant:	no		
Special Provisions:	63, 190, 277, 327, 344, 9	959	
Limited quantity:	1000 mL		
Excepted quantity:	E0		
EmS:	F-D, S-U		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	UN 1950		
14.2. UN proper shipping name:	AEROSOLS		
14.3. Transport hazard class(es):	2.2		
14.4. Packing group:	-		
Hazard label:	2.2		
Special Provisions:	A98 A145 A167 A802		
Limited quantity Passenger:	30 kg G		
Passenger LQ:	Y203		
Excepted quantity:	E0		
IATA-packing instructions - Passenger:	203	3	
IATA-max. quantity - Passenger:	75	kg	
IATA-packing instructions - Cargo:	203	3	
IATA-max. quantity - Cargo:	150	) kg	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
SECTION 15: Regulatory information			

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 28

2010/75/EU (VOC):

No information available.



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2004/42/EC (VOC):	No information available.				
Additional information					
Safety Data Sheet accordir Aerosol directive (75/324/E	ng to Regulation (EC) No. 1907/2006 (REACH) EC)				
National regulatory information	on				
Water hazard class (D): Additional information	1 - slightly hazardous to water				
94/69/EC (21st ATP). The I	benzene content of the product is less than 0.1%. It applies the annotation P. as carcinogenic is not necessary.				
SECTION 16: Other information	on				
Changes					

This data sheet contains changes from the previous version in section(s): 1.

### 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) IATA: International Air Transport Association IMDG: International Maritime Code for Dangerous Goods GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average ATE: Acute Toxicity Estimate STEL (EC) Short Term Exposure Limit LC50: Lethal Concentration EC50: half maximal Effective Concentration ErC50: means EC50 in terms of reduction of growth rate Relevant H and EUH statements (number and full text) Pressurised container: May burst if heated. H229 H304 May be fatal if swallowed and enters airways. EUH066 Repeated exposure may cause skin dryness or cracking.

### **Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: Calculation method.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)