

according to Regulation (EC) No 1907/2006 (REACH) as amended

#### **H1-PTFE LUBE** Creation date 17th July 2024 Revision date 5.0 Version SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** H1-PTFE LUBE Substance / mixture mixture Number 1 35672 UFT E2R3-ADR1-R00T-8Y2F 1.2. Relevant identified uses of the substance or mixture and uses advised against Mixture's intended use Grease. For professional use only. Mixture uses advised against The product should not be used in ways other than those referred in Section 1. 1.3. Details of the supplier of the safety data sheet Supplier Name or trade name RETECH, s.r.o. Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic Identification number (CRN) 25018205 CZ25018205 VAT Reg No Phone +420327596428 E-mail info@retech.cz Web address www.retech.com Competent person responsible for the safety data sheet Name RETECH, s.r.o. F-mail info@retech.cz 1.4. **Emergency telephone number** European emergency number: 112

## SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H229, H222 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 **Most serious adverse physico-chemical effects** 

Pressurised container: May burst if heated. Extremely flammable aerosol.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

### Hazard pictogram



Signal wordDangerHazardous substancespentaneHazard statementsH222Extremely flammable aerosol.H229Pressurised container: May burst if heated.H336May cause drowsiness or dizziness.



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H412	Harmful to aquatic life with long lasting effects.
Precautionary	statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
P331	Do NOT induce vomiting.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane (containing < 0,1 % butadiene (203 -450-8))	25-<50	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	10-<25	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 109-66-0 EC: 203-692-4 Registration number: 01-2119459286-30	pentane	10-<25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	1
CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane	2,5-<10	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 68411-46-1 EC: 270-128-1 Registration number: 01-2119491299-23	benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤0,1	Repr. 2, H361f Aquatic Chronic 3, H412	

## Notes

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.



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## If inhaled

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

#### If on skin

Generally the product does not irritate the skin.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

## If swallowed

DO NOT INDUCE VOMITING! Provide medical treatment.

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

#### If inhaled

May cause drowsiness or dizziness.

If on skin not available If in eyes not available If swallowed

## not available

- 4.3. Indication of any immediate medical attention and special treatment needed
  - not available

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media Water - full jet. Special hazards arising from the substance or mixture

5.2. Special hazards arising from the substance or mixture not available

## 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

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

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

Provide sufficient ventilation. Use personal protective equipment for work. Keep unprotected persons away.

## 6.2. Environmental precautions

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.

- 6.3. Methods and material for containment and cleaning up
- Provide sufficient ventilation. Do not flush with water or aqueous cleansing agents.
- **6.4.** Reference to other sections See the Section 7, 8 and 13.

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

## 7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.



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7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union	Commission Directive 2006/15/EC		
Substance name (component)	Туре	Value	
partana (CAS) 100 66 0)	OEL 8 hours	3000 mg/m <sup>3</sup>	
pentane (CAS: 109-66-0)	OEL 8 hours	1000 ppm	

### DNEL

pentane	pentane					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source	
Workers	Inhalation	3000 mg/m <sup>3</sup>	Chronic effects systemic			
Consumers	Inhalation	643 mg/m <sup>3</sup>	Chronic effects systemic			
Workers	Dermal	432 mg/kg bw/day	Chronic effects systemic			
Consumers	Dermal	214 mg/kg bw/day	Chronic effects systemic			
Consumers	Oral	214 mg/kg bw/day	Chronic effects systemic			

## 8.2. Exposure controls

Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material:  $\geq$  0.5 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Filter A2/P2.

- **Thermal hazard**
- Not available.

### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

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

## 9.1. Information on basic physical and chemical properties

Physical state	gas
Colour	whitish
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-44.5 °C
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
bottom	1.4 %
upper	10.9 %
Flash point	-97 °C



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	Auto-ignition temperature	data not available	
	Decomposition temperature	data not available	
	рН	non-polar/aprotic	
	Kinematic viscosity	<20.5 mm²/s at 4	10 °C
	Solubility in water	almost insoluble	
	Solubility in fats	data not available	
	Partition coefficient n-octanol/water (log value)	data not available	
	Vapour pressure	4000 hPa at 20 °C	2
	Density and/or relative density		
	Density	0.662 g/cm <sup>3</sup> at 20	0 °C
	Relative vapour density	data not available	
	Particle characteristics	data not available	
	Form	aerosol dispenser	: spray aerosol
	data not available		
9.2.	Other information		
	Evaporation rate	data not available	
	Ignition temperature	285 °C	
	Explosive properties	The product does explosive when bl	not have explosive properties but can be ended with air.
	Content of organic solvents (VOC)	61.5 %	
	Solid content (dry matter)	13.2 % volume	
	Max. VOC content in the product in its ready to use condition	407.1 g/l	
	Product is not selfigniting.		
	ON 10: Stability and reactivity		
10.1.			
	not available		
10.2.	Chemical stability		
	The product is stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
	Unknown.		
10.4.	Conditions to avoid not available		
10 5	Incompatible materials		

10.5. Incompatible materials not available

**10.6. Hazardous decomposition products** Unknown.

## **SECTION 11: Toxicological information**

**11.1.** Information on hazard classes as defined in Regulation (EC) No 1272/2008 No toxicological data is available for the mixture.

### Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

pentane						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD 50	>5000 mg/kg		Rat		

## Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.



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## Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## **Reproductive toxicity**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

### Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### **Aspiration hazard**

May be fatal if swallowed and enters airways. Data for the components of the mixture are not available.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

## Acute toxicity

pentane						
Parameter	Value	Exposure time	Species	Environment		
LC50	4.26 mg/l	96 hours	Fish (Oncorhynchus mykiss)			
EC₅o	2.7 mg/l	48 hours	Invertebrates (Daphnia magna)			
EC₅o	10.7 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)			



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# Chronic toxicity

pentane						
Parameter	Value	Exposure time	Species	Environment		
NOEC	7.51 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)			

### 12.2. Persistence and degradability

The product is not easily biodegradable.

## 12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

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## 12.4. Mobility in soil

No data are available for either the mixture or the components.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### **12.6.** Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### **12.7.** Other adverse effects

Water hazard class 2 (German Regulation; Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into soil. Harmful for aquatic organisms.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. HP3 "Flammable".

HP 14 'Ecotoxic'.

### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### Waste type code

16 03 05\* organic wastes containing hazardous substances

## Packaging waste type code

15 01 11\* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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

### 14.1. UN number or ID number

- UN 1950
- **14.2.** UN proper shipping name AEROSOLS
- 14.3. Transport hazard class(es) 2 Gases

14.4. Packing group

## not relevant

14.5. Environmental hazards not relevant



R		AFETY DATA SHEET	
QUALITY	FOR PROFESSIONALS according to Red	gulation (EC) No 1907/2006 (REACH) as	amended
		H1-PTFE LUBE	
Creatio	on date 17th July 2024		
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14.6.	Special precautions for user		
	Reference in the Sections 4 to 8.		
14.7.	Maritime transport in bulk accordi	ng to IMO instruments	
	not relevant		
	Additional information		
	Stowage Code:		
	SW1 Protected from sources of heat.		
	SW22 For AEROSOLS with a maximum Category B. For WASTE AEROSOLS: C	n capacity of 1 litre: Category A. For AEF	ROSOLS with a capacity above 1 litre:
	Category D. FOR WASTE ALKOSOLS. C	acegory C, Clear or inving quarters.	
	Segregation Code:		
	SG69 For AEROSOLS with a maximum		
		arated from" class 1 except for division 1	
		1 litre: Segregation as for the appropriat	
		s for the appropriate subdivision of class	5 2.
	Hazard identification No.		
	UN number	1950	
	Classification code	5F	
	Safety signs	2.1	
		stile	
		$\langle \simeq \rangle$	
		2	
	Road transport - ADR		
	Limited quantities	1L	
	Excepted quantities	EO	
	Tunnel restriction code	(D)	
	Railway transport - RID	· ·	
	Marine transport - IMDG		
	EmS (emergency plan)	F-D, S-U	

### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### More information

Directive 2012/18/EU of the European parliament and of the Council - ANNEX I - Hazard categories: P3a FLAMMABLE AEROSOLS.

Qualifying quantity (tonnes) of dangerous substances for the application - of lower-tier requirements: 150 (net). Qualifying quantity (tonnes) of dangerous substances for the application of - upper-tier requirements: 500 (net).

SECTION	16:	Other	information

A list of standard risk phrases used in the safety data sheet		
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	

RETECH QUALITY FOR PROFESSIONALS

# SAFETY DATA SHEET

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H229		Pressurised container:	May burst if heated	
H280		Contains gas under pre	•	
H304		May be fatal if swallow		
H336		May cause drowsiness		,
H361f		Suspected of damaging		
H411		Toxic to aquatic life wi		ts.
H412		Harmful to aquatic life		
	lines for safe handling	•		
P210				s, open flames and other ignition sources.
P211		Do not spray on an op	en flame or other ig	nition source.
P251		Do not pierce or burn,	even after use.	
P261		Avoid breathing mist/v	apours/spray.	
P271		Use only outdoors or in	n a well-ventilated a	rea.
P301+	-P310	IF SWALLOWED: Imme	ediately call a POISC	ON CENTER.
P331		Do NOT induce vomitir	ng.	
P403		Store in a well-ventilat	ed place.	
P410+	-P412	Protect from sunlight.	Do no expose to ten	nperatures exceeding 50 °C/122 °F.
A list	of additional standard	phrases used in the s	afety data sheet	
EUH06		Repeated exposure ma		ss or cracking.
Other	r important information	about human health	protection	
				rer/importer - used for purposes other thar
as per	the Section 1. The user i	s responsible for adher	ence to all related he	ealth protection regulations.
Key t	o abbreviations and ac	ronyms used in the sa	afety data sheet	
ADR		European agreement c road	oncerning the interr	national carriage of dangerous goods by
BCF		Bioconcentration Facto	r	
CAS		Chemical Abstracts Se	rvice	
CLP		Regulation (EC) No 12 substance and mixture		ation, labelling and packaging of
EC		Identification code for	each substance liste	ed in EINECS
EC₅o		Concentration of a sub	stance when it is aff	fected 50% of the population
EINEC	S	European Inventory of	Existing Commercia	al Chemical Substances
EmS		Emergency plan		
EU		European Union		
EuPCS	5	European Product Cate	gorisation System	
IATA		International Air Trans	port Association	
IBC		International Code For Dangerous Chemicals	The Construction A	nd Equipment of Ships Carrying
ICAO		International Civil Avia	tion Organization	
IMDG		International Maritime	Dangerous Goods	
IMO		International Maritime	Organization	
INCI		International Nomencle	ature of Cosmetic In	igredients
ISO		International Organiza	tion for Standardiza	tion
IUPAC		International Union of	Pure and Applied Ch	nemistry
LC₅o		population		ch it can be expected death of 50% of the
LD50		Lethal dose of a substapopulation	ance in which it can	be expected death of 50% of the
log Ko	w	Octanol-water partition	n coefficient	
NOEC		No observed effect cor	centration	
OEL		Occupational Exposure	Limits	
PBT		Persistent, Bioaccumul	ative and Toxic	
ppm		Parts per million		
REACH	4	Registration, Evaluatio	n, Authorisation and	l Restriction of Chemicals
RID		Agreement on the tran	sport of dangerous	goods by rail



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UN	Four-figure identification number of the substance or article taken from the UN Model Regulations			
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials			
VOC	Volatile organic compounds			
vPvB	Very Persistent and very Bioaccumulative			
Aerosol	Aerosol			
Aquatic Chronic	Hazardous to the aquatic environment (chronic)			
Asp. Tox.	Aspiration hazard			
Flam. Gas	Flammable gas			
Flam. Liq.	Flammable liquid			
Press. Gas	Gases under pressure			
Repr.	Reproductive toxicity			
STOT SE	Specific target organ toxicity - single exposure			
Training guidelines				

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

## **Recommended restrictions of use**

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

## The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from 16 December 2022. Changes were made in sections 1, 2, 3, 8, 9, 11, 12, 13, 14, 15 and 16.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.