

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

according to Regulation (EC) No 1907/2006 (REACH) as amended					
	DRY GRA	APHITE NANO			
Creati	on date 11th December 2023				
Revisi	on date	Version	2.1		
SECT	ON 1: Identification of the substance/mixture	and of the company/u	Indertaking		
1.1.	Product identifier	DRY GRAPHITE	-		
	Substance / mixture	mixture			
	Number	R 34454			
	UFI	9G6S-1Y1M-U00	02-AN3X		
1.2.	Relevant identified uses of the substance or r	nixture and uses advis	sed against		
	Mixture's intended use				
	Grease.				
	Main intended use				
	PC-TEC-11 Lubricants, greases, release agents				
	Mixture uses advised against				
	For professional use only.				
1.3.	Details of the supplier of the safety data sheet				
	Supplier				
	Name or trade name	RETECH, s.r.o.			
	Address	Vackova 1541/4	4, Praha 5 - Stodůlky, 155 00		
		Czech Republic			
	Identification number (CRN)	25018205			
	VAT Reg No	CZ25018205			
	Phone	+420327596428	8		
	E-mail	info@retech.cz			
	Web address	www.retech.com	n		
	Competent person responsible for the safety	data sheet			
	Name	RETECH, s.r.o.			
	E-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

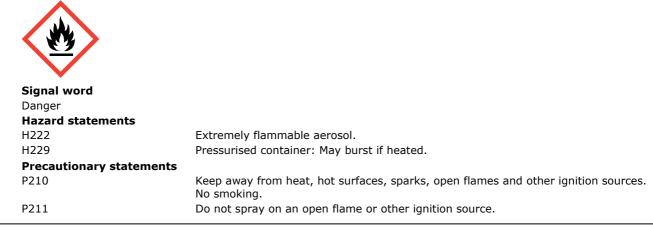
Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse physico-chemical effects

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

### 2.2. Label elements

Hazard pictogram





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P251 Do not pierce or burn, even after use.				
P260	Do not breathe mist/vapours/spray.			
P271	Use only outdoors or in a well-ventilated area.			
P280	Wear protective gloves/eye protection.			
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: 109-87-5 EC: 203-714-2 Registration number: 01-2119664781-31	dimethoxymethane	25-<50	Flam. Liq. 2, H225	2
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	10-<25	Flam. Liq. 2, H225	
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	2,5-<10	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8))	2,5-<10	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 67-56-1 EC: 200-659-6 Registration number: 01-2119433307-44	methanol	0,1-<1	Flam. Liq. 2, H225 Acute Tox. 3, H301, H311, H331 STOT SE 1, H370	1
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	0,1-<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1

Notes

1 A substance for which exposure limits are set.

2 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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



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#### **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.

#### 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

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If inhaled not available 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.

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.



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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

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

Content	Packaging type	Material of package
400 ml	aerosol can	FE

### 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	Com	mission Directive 2000/39/EC	
Substance name (component)	Туре	Value	Note
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m <sup>3</sup>	
acelone (CAS: 67-64-1)	OEL 8 hours	500 ppm	

#### **European Union**

#### Commission Directive 2006/15/EC

Substance name (component)	Туре	Value	Note	
methanol (CAS: 67-56-1)	OEL 8 hours	260 mg/m <sup>3</sup>	Skin	
	OEL 8 hours	200 ppm	SKIII	

#### 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.

#### Skin protection

Hand protection: Protective gloves resistant to the product. The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material:  $\geq 0.5$  mm. Penetration time of glove material: > 480 min. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. 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

	liquid
	black
	characteristic
:	data not available
g point and boiling rar	ige -44.5 °C
	g point and boiling rar



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Flar	mmability	Extremely flamma	able aerosol.
Low	ver and upper explosion limit		
	bottom	1.5 %	
	upper	19.9 %	
Flas	sh point	-97 °C	
Aut	o-ignition temperature	data not available	
Dec	composition temperature	data not available	
pН		non-polar/aprotic	
Kin	ematic viscosity	data not available	
Sol	ubility in water	soluble	
Sol	ubility in fats	data not available	
Par	tition coefficient n-octanol/water (log value)	data not available	
Vap	oour pressure	2100 hPa at 20 °C	2
Der	nsity and/or relative density		
	Density	0.671 g/cm <sup>3</sup> at 20	0 °C
Rela	ative vapour density	data not available	
Par	ticle characteristics	data not available	
For	m	aerosol dispenser	: spray aerosol
dat	a not available		
9.2. Oth	ner information		
Eva	aporation rate	data not available	
Exp	plosive properties	The product does explosive when bl	not have explosive properties but can be ended with air.
Cor	ntent of organic solvents (VOC)	96.1 %	
Sol	id content (dry matter)	3.4 % volume	
Max con	x. VOC content in the product in its ready to use idition iduct is not selfigniting.	644.8 g/l	

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

10.1.	Reactivity
	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
	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

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.

#### 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

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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 - 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

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.

#### 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

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.

- **12.2.** Persistence and degradability No data are available for either the mixture or the components.
- 12.3. Bioaccumulative potential

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

#### 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

Not available.

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



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#### 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. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

#### 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.

#### **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)2Gases
- 14.4. Packing group not relevant
- 14.5. Environmental hazards

#### **14.6.** Special precautions for user Reference in the Sections 4 to 8.

# **14.7.** Maritime transport in bulk according to IMO instruments not relevant

#### **Additional information**

Stowage Code: SW1 Protected from sources of heat. SW2 Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1
Road transport - ADR	
Limited quantities	1 L
Excepted quantities	EO
Transport category	2
Tunnel restriction code	(D)
Railway transport - RID	
Marine transport - IMDG	
EmS (emergency plan)	F-D, S-U



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#### 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. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9. 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.

A list of standard visit abunces used in the seferty data sheets

#### **SECTION 16: Other information**

A list of standard lisk plilas	es used in the safety data sheet
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
Guidelines for safe handling	used in the safety data sheet
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.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.
A list of additional standard	phrases used in the safety data sheet
EUH066	Repeated exposure may cause skin dryness or cracking.
Other important information	about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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QUALITY FOR PROFESSIONALS

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ICAO	International Civil Aviation Organizat	tion
IMDG	International Maritime Dangerous Go	oods
IMO	International Maritime Organization	
INCI	International Nomenclature of Cosme	etic Ingredients
ISO	International Organization for Standa	ardization
IUPAC	International Union of Pure and Appl	ied Chemistry
log Kow	Octanol-water partition coefficient	
OEL	Occupational Exposure Limits	
PBT	Persistent, Bioaccumulative and Toxi	ic
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisatio	on and Restriction of Chemicals
RID	Agreement on the transport of dange	erous goods by rail
UN	Four-figure identification number of t Model Regulations	the substance or article taken from the UN
UVCB	Substances of unknown or variable c biological materials	composition, complex reaction products or
VOC	Volatile organic compounds	
vPvB	Very Persistent and very Bioaccumul	lative
Acute Tox.	Acute toxicity	
Aerosol	Aerosol	
Eye Irrit.	Eye irritation	
Flam. Gas	Flammable gas	
Flam. Liq.	Flammable liquid	
Press. Gas	Gases under pressure	
STOT SE	Specific target organ toxicity - single	exposure

#### **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 2.1 replaces the SDS version from 08 February 2021. Changes were made in sections 2, 11, 12, 13, 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.