Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Issue date: 13/07/2020 Revision date: 13/07/2020 Supersedes: 09/01/2020 Version: 7.02



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

1.1. Product identifier

Trade name : D1

Project-No. : PK_0007_M Made in Germany

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Operating fluid / lubricant for vacuum pumps

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

PFEIFFER VACUUM GmbH

Berliner Strasse 43

35614 Asslar - Deutschland

T +49 6441 / 802-0 - F +49 6441 / 802-1202

www.pfeiffer-vacuum.com - info@pfeiffer-vacuum.de

1.4. Emergency telephone number

Emergency number : National Health Service (NHS)

24 hour national number consumer

sds@kft.de

England and Scotland: 111 Wales: 0845 46 47

Northern Ireland: call your local General Practitioner

Email competent person

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

PBT: not relevant – no registration required vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

13/07/2020 (Version: 7.02) GB - en 1/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	(CAS-No.) 119-47-1 (EC-No.) 204-327-1	≥0,1 - <1	Repr. 2, H361

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be

done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling)

and collect in suitable container for disposal.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Take

precautionary measures against static discharges. Prevent build-up of electrostatic charges

(e.g, by grounding).

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

oroduct.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Incompatible materials : oxidizing materials. Reducing agents.

Information about storage in one common storage : Keep away from food, drink and animal feeding stuffs.

facility

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (119-47-1)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	3.175 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	22.4 mg/m³	
Long-term - systemic effects, dermal	0.635 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	4.48 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	1.59 mg/kg bodyweight	
Acute - systemic effects, inhalation	5.5 mg/m³	
Acute - systemic effects, oral	1.59 mg/kg bodyweight	
Long-term - systemic effects,oral	0.318 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1.1 mg/m³	
Long-term - systemic effects, dermal	0.318 mg/kg bodyweight/day	
PNEC (Oral)		
PNEC oral (secondary poisoning)	10 mg/kg food	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Materials for protective clothing:

Use protective clothing

Hand protection:

Chemically resistant protective gloves. EN 374. Do not use: Natural rubber, Nitrile rubber, Butyl rubber, Polyvinylchloride (PVC), Polyethylene, Polychloroprene rubber (CR). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

Use splash goggles when eye contact due to splashing is possible. EN 166

Skin and body protection:

Wear suitable protective clothing. EN 340. EN 13034

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Filter: P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

: Liquid

Environmental exposure controls:

Avoid release to the environment.

Physical state

Explosive limits

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : clear. Colour : Yellow. Odour : characteristic. Odour threshold : No data available : No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : -31 °C (ASTM D-97) **Boiling point** : No data available : > 250 °C (ASTM D-92) Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available : Not applicable Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 0.957 g/cm3 (15 °C) Solubility : Water: Insoluble Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : Product is not explosive. Oxidising properties : Non oxidizing.

13/07/2020 (Version: 7.02) GB - en 4/8

: No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidizing agent. Reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term : Not classified (Based on available data, the classification criteria are not met)

(chronic)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



12.2. Persistence and degradability

D1

Persistence and degradability No additional information available.

12.3. Bioaccumulative potential

D1

Bioaccumulative potential No additional information available.

12.4. Mobility in soil

D1

Ecology - soil No additional information available.

12.5. Results of PBT and vPvB assessment

D1

PBT: not relevant - no registration required

vPvB: not relevant - no registration required

Component

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (119-47-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects

: No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue. Do not

dispose of with domestic waste. Do not discharge into drains or the environment.

Product/Packaging disposal recommendations European List of Waste (LoW) code

ns

: Do not dispose of with domestic waste.

: 13 02 06* - synthetic engine, gear and lubricating oils

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number			1	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	zards	1	1	1
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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D^{1}

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

No change required according to maintenance check.

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)
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : MSDS of the supplier. ECHA (European Chemicals Agency).

Department issuing data : KFT Chemieservice GmbH

specification sheet: Im Leuschnerpark. 3 64347 Griesheim

Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500

Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Lisa Schmitt

Full text of H- and EUH-statements:	
Repr. 2	Reproductive toxicity, Category 2
H361	Suspected of damaging fertility or the unborn child.
EUH210	Safety data sheet available on request.

KFT SDS EU 11

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.