

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 22/12/2011 Revision date: 21/06/2024 Supersedes: 03/03/2023 version: 18.0

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : MPM Lithium Grease EP00/000 UFI : 3CRV-S02J-G00C-F19Y

Product code : 64000
Type of product : Fats and Oils
Product group : Blend

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

#### Relevant identified uses

Main use category : Professional use, Industrial use

Industrial/Professional use spec : Non-dispersive use

Use of the substance/mixture : Manual activities involving hand contact

Function or use category : Lubricants and additives

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

#### Manufacturer

MPM International Oil Company BV

Cyclotronweg 1

NL 2629 HN Delft, Zuid Holland

Nederland

T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

info@mpmoil.com, www.mpmoil.com

# 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317 Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

# 2.2. Label elements

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

Hazard pictograms (CLP)



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CLP Signal word : WARNING.

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P262 - Do not get in eyes, on skin, or on clothing. P273 - Avoid release to the environment. P280 - Wear protective gloves, face protection.

P501 - Dispose of contents/container in accordance with local and national regulations.

EUH208 - Contains: Dihydro-3-(tetrapropenyl)furan-2,5-dione, Phosphoric acid ester amine

salt. May produce an allergic reaction.

Extra phrases : For professional users only.

#### 2.3. Other hazards

**EUH-statements** 

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
· · ·	Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7), (Z)-octadec-9-enylamine (112-90-3), Phosphoric acid ester amine salt
( )	Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7), (Z)-octadec-9-enylamine (112-90-3), Phosphoric acid ester amine salt

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### Component

Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7), Phosphoric acid ester amine salt, (Z)-octadec-9-enylamine (112-90-3)

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

# 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dihydro-3-(tetrapropenyl)furan-2,5-dione	CAS-No.: 26544-38-7 EC-No.: 247-781-6 REACH-no: 01-2119979080- 37	≥ 0.1 – ≤ 1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 4, H413
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	≥ 0.1 – ≤ 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
(Z)-octadec-9-enylamine	CAS-No.: 112-90-3 EC-No.: 204-015-5 EC Index-No.: 612-283-00-3	≥ 0.1 – ≤ 0.25	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	(9.39 ≤ C < 100) Skin Sens. 1; H317 (50 ≤ C < 100) Eye Dam. 1; H318 (50 ≤ C < 100) Eye Irrit. 2; H319

Comments : This product does not contain substances that may be of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

After inhalation : Not required.

After skin contact : Wash skin with mild soap and water.

After eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. After ingestion : Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical

advice/attention.

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

After inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of

normal use.

After skin contact Not expected to present a significant skin hazard under anticipated conditions of normal

use

After eye contact Not expected to present a significant eye contact hazard under anticipated conditions of

normal use.

After ingestion Not expected to present a significant ingestion hazard under anticipated conditions of

normal use.

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

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, powder, foam and CO2. Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

# 5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

: If spilled, may cause the floor to be slippery. General measures

For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

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Emergency procedures : Do not breathe vapours.

For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Safety glasses.

# 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information : Spill area may be slippery. Use suitable disposal containers.

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are

usually required.

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Handling temperature : < 20 °C

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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

Technical measures : Store in a closed container.

Storage conditions : Keep container closed when not in use.

Storage temperature : ≤ 20 °C

Storage area : Store in dry, well-ventilated area.

# 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

#### **DNEL and PNEC**

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is

recommended.

#### 8.2. Exposure controls

### Appropriate engineering controls

#### Technical measures:

No additional information available.

# Personal protection equipment

# Personal protective equipment:

Gloves. Safety glasses.

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#### Personal protective equipment symbol(s):





#### Eye and face protection

#### Eye protection:

Safety goggles

#### **Skin protection**

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Hand protection:

Protective gloves

# **Respiratory protection**

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

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

# 9.1. Information on basic physical and chemical properties

Physical state : Solid Colour Dark brown. Appearance Paste. Odour Characteristic. Odour threshold : Not available : > 170 °C Melting point : > 170 °C Freezing point : > 300 °C Boiling point Flammability (solid, gas) Not available Explosive properties : No data available. Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : > 200 °C Auto-ignition temperature : Not applicable Decomposition temperature : Not available рΗ : Not available pH solution : Not available Viscosity, kinematic : Not applicable

Solubility : Slightly soluble, the product remains on the water surface.

Log Kow : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 886 kg/m³ @ 25°C
Relative density : Not available
Relative vapour density at 20°C : Not applicable
Particle size : Not available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None under normal conditions.

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#### 10.2. Chemical stability

Stable under normal conditions of use.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

# 10.5. Incompatible materials

Strong oxidizing agent. Acids and bases.

#### 10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO2).

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Additional information : May cause sensitization by skin contact. Specific test data for the

substance or mixture is not available. Repeated or prolonged contact with the skin can

cause allergic reactions in sensitive individuals. (based on components).\*\*\*

Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)		
LD50 oral rat	2900 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 Inhalation - Rat (Dust/Mist)	5.3 mg/l/4h	
ATE CLP (oral)	2900 mg/kg bodyweight	
ATE CLP (dust,mist) 5.3 mg/l/4h		

#### Phosphoric acid ester amine salt

ATE CLP (oral)	500 mg/kg bodyweight
Skin correcion/irritation	· Not classified

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation : Not classified.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified

# (Z)-octadec-9-enylamine (112-90-3)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

# (Z)-octadec-9-enylamine (112-90-3)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

# Phosphoric acid ester amine salt

NOAEL (oral, rat, 90 days) 150 mg/kg bodyweight/day @28d (OECD 407)

Aspiration hazard : Not classified

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Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)	
Viscosity, kinematic	0.428 mm²/s

# 11.2. Information on other hazards

#### **Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### Other information

Potential adverse human health effects and symptoms

 According to the Preparation Directive 1999/45/EC this product is classified as not dangerous, This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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

Ecology - water : 0% of the mixture consists of component(s) of unknown hazard to the aquatic environment.

Hazardous to the aquatic environment, short–term : Not classified

(acute)

Hazardous to the aquatic environment, long-term (chronic)

: Harmful to aquatic life with long lasting effects.

Phosphoric acid ester amine salt		
LC50 fish 1	24 mg/l @4d Oncorhynchus mykiss	
LC50 fish 2	8.5 mg/l Pimephales promelas @4d	
EC50 Daphnia 1	91.4 mg/l Daphnia magna	
EC50 72h - Algae [1]	6.4 mg/l Selenastrum capricornutum	
NOEC chronic fish	3.2 mg/l Oncorhynchus mykiss @4d	
NOEC chronic crustacea	0.12 mg/l Daphnia magna @2d	
NOEC chronic algae	1.7 mg/l Selenastrum capricornutum @4d	

# 12.2. Persistence and degradability

MPM Lithium Grease EP00/000		
Persistence and degradability	Rapidly degradable	
Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)		
Persistence and degradability Rapidly degradable		
(Z)-octadec-9-enylamine (112-90-3)		
Persistence and degradability	Rapidly degradable	
Biodegradation	66 % OECD 301B @ 28d	
Phosphoric acid ester amine salt		
Persistence and degradability	Rapidly degradable	
BOD (% of ThOD)  3.6 % ThOD @28d inherent sediment		
Biodegradation 7.4 % Sturm (28d) OECD TG 301B		

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# 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

MPM Lithium Grease EP00/000		
Results of PBT assessment	This mixture does not contain substances considered to be persistent, bioaccumulative or toxic (PBT). This mixture contains no substances considered as being very persistent or very bioaccumulative (vPvB).	
Component		
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7), (Z)-octadec-9-enylamine (112-90-3), Phosphoric acid ester amine salt	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7), (Z)-octadec-9-enylamine (112-90-3), Phosphoric acid ester amine salt	

# 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The product does not contain any substances with endocrine disrupting properties.

#### 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Additional information : This material and its container must be disposed of in a safe way, and as per local

legislation.

European List of Waste (LoW, EC 2000/532) : 20 01 26\* - oil and fat other than those mentioned in 20 01 25

# **SECTION 14: Transport information**

In accordance with ADR / IMDG

ADR	IMDG	
14.1. UN number or ID number		
Not regulated for transport		
14.2. UN proper shipping name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Dangerous for the environment: No  Dangerous for the environment: No  Marine pollutant: No		
No supplementary information available		

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#### 14.6. Special precautions for user

#### **Overland transport**

No data available

#### Transport by sea

No data available

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### **Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

Indication of changes		
Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
	Comments (below composition)	Added
	Display additional SDS EU addresses	Added
1.1	UFI on SDS 1.1	Added

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Indication of changes		
Section	Changed item	Comments
2.2	Precautionary statements (CLP)	Modified
2.2	EUH-statements	Added
3	Composition/information on ingredients	Modified

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH208	Contains: Dihydro-3-(tetrapropenyl)furan-2,5-dione, Phosphoric acid ester amine salt. May produce an allergic reaction.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.