	SAFETY DATA SHEET	Page : 1 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

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

1.1. Product identifier

Product form : Substance
Trade name : Graco TSL
Chemical name : bis(2-propylheptyl) phthalate
EC-No. : 258-469-4
CAS-No. : 53306-54-0
REACH registration No : 01-2119446694-30-XXXX
Part Number(s) : 238049, 206994, 206995, 206996, 206997, 206998, 24C822, 24C823, 17C436, 25T777, 25T859
Document no. : 307765ENEU
Rev. A

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

1.2.1. Relevant identified uses

Main use category : Industrial uses, Professional uses
Use of the substance/mixture : Lubricant

1.2.2. Uses advised against

No additional information available


1.3. Details of the supplier of the safety data sheet

GRACO DISTRIBUTION BV
Slakweidestraat 31
3630 Maasmechelen - Belgium
T +32 89 770 700
reach@graco.com - www.graco.com

GRACO Ltd.
29 Wellington St
LS1 4DL Leeds - United Kingdom
T 0800 404 76 60
reach@graco.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
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)

	SAFETY DATA SHEET	Page : 2 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label elements

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

Not applicable.

2.3. Other hazards

Other hazards : None under normal conditions.

Component	
bis(2-propylheptyl) phthalate (53306-54-0)	<p>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</p> <p>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</p>

ED: not yet assessed

Under assessment as Endocrine Disrupting

SECTION 3: Composition/information on ingredients

3.1. Substances


Substance name : bis(2-propylheptyl) phthalate
CAS-No. : 53306-54-0
EC-No. : 258-469-4

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
bis(2-propylheptyl) phthalate	(CAS-No.) 53306-54-0 (EC-No.) 258-469-4 (REACH-no) 01-2119446694-30-XXXX	80 – 100	Not classified

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

3.2. Mixtures

Not applicable

	SAFETY DATA SHEET	Page : 3 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. In case of doubt or persistent symptoms, consult always a physician.

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

Inhalation	: Health injuries are not known or expected under normal use.
Skin contact	: Health injuries are not known or expected under normal use.
Eyes contact	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.

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	: carbon dioxide (CO ₂), powder, alcohol-resistant foam, water spray. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Not flammable. Heating will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). nitrogen oxides (NO _x) and sulphur oxides. Hydrocarbons. Phosphorus oxides.

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

	SAFETY DATA SHEET	Page : 4 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling


Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Handling temperature <60°C. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Packaging materials : Keep only in the original container.

	SAFETY DATA SHEET	Page : 5 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

7.3. Specific end use(s)

For further information see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

bis(2-propylheptyl) phthalate (53306-54-0)	
PNEC (sediment)	
PNEC sediment (freshwater)	0,939 mg/kg dwt
PNEC sediment (marine water)	0,094 mg/kg dwt
PNEC (soil)	
PNEC soil	26,5 mg/kg dwt

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring


8.2. Exposure controls

- Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling.
- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Neoprene. Nitrile rubber. Thickness : > 0,3 mm. Chloroprene rubber. Thickness : 0,5 mm. Polyvinylchloride (PVC). Thickness : 0,7 mm. Breakthrough time : ≥ 8h. 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.
- Eye protection : Not required for normal conditions of use. If there is a risk of liquid being splashed : Use suitable eye protection (EN166): Safety glasses
- Body protection : Wear suitable protective clothing. Wear suitable coveralls to prevent exposure to the skin
- Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 141). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
- Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.
- Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid


	SAFETY DATA SHEET	Page : 6 / 12
		Revision nr : 1.0
		Issue date : 01/03/2022
	Graco TSL	Supersedes :
		307765ENEU Rev. A

Appearance	: clear. Liquid.
Colour	: Colourless.
Odour	: Mild odour. Sweet.
Odour threshold	: Not determined No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not determined
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 260 °C (10000 mmHg)
Flash point	: 240 °C (Cleveland Open Cup Method)
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable,liquid
Vapour pressure	: 0,1 mmHg (155°C)
Vapour density	: Not determined
Relative density	: No data available
Density	: 1,166 g/cm ³ (15,6 °C)
Solubility	: Water: < 0,0001 mg/l (25°C)
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: Not determined
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

	SAFETY DATA SHEET	Page : 7 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

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. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. Acids. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

SECTION 11: Toxicological information

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

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

bis(2-propylheptyl) phthalate (53306-54-0)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	> 20,5 mg/l (Exposure time: 1 h)

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

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

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)

Graco TSL (53306-54-0)	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics.
For further information see section 4.

	SAFETY DATA SHEET	Page : 8 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Under assessment as Endocrine Disrupting

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

bis(2-propylheptyl) phthalate (53306-54-0)	
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEL, Danio rerio (zebra fish)	>10 mg/l (36 days)
NOEC, Daphnia magna (Water flea)	>1 mg/l (21 days)

12.2. Persistence and degradability


bis(2-propylheptyl) phthalate (53306-54-0)	
Persistence and degradability	Readily biodegradable (DPHP).
Biodegradation	82 – 98 % (DPHP - 28 days)

12.3. Bioaccumulative potential

bis(2-propylheptyl) phthalate (53306-54-0)	
BCF - Fish [1]	55 (Quantitative structure-activity relationship (QSAR))
Partition coefficient n-octanol/water (Log Kow)	10,36 (25°C)
Bioaccumulative potential	Low potential.

12.4. Mobility in soil

Graco TSL (53306-54-0)	
Mobility in soil	No data available

	SAFETY DATA SHEET	Page : 9 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

12.5. Results of PBT and vPvB assessment

Component	
bis(2-propylheptyl) phthalate (53306-54-0)	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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Under assessment as Endocrine Disrupting

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.


European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

No supplementary information available

	SAFETY DATA SHEET	Page : 10 / 12
	Graco TSL	Revision nr : 1.0
		Issue date : 01/03/2022
		Supersedes :
		307765ENEU Rev. A

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Graco TSL is not on the REACH Candidate List

Graco TSL is not on the REACH Annex XIV List

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 1359)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : B (5) - Weinig schadelijk voor in het water levende organismen



SAFETY DATA SHEET

Page : 11 / 12

Revision nr : 1.0

Issue date : 01/03/2022

Graco TSL

Supersedes :

**307765ENEU
Rev. A**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed


15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity

	SAFETY DATA SHEET	Page : 12 / 12
		Revision nr : 1.0
	Graco TSL	Issue date : 01/03/2022
		Supersedes : 307765ENEU Rev. A

	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : ECHA (European Chemicals Agency), supplier SDS, Loli. datasheet

Training advice : Training staff on good practice.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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