

According to directive 1907/2006/EC, 2020/878
Version 3.0 Revision date: 13-02-2024
Trade name: PT Flex 50-60-70-85 Part B

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

1.1 Product Identification:

Product name:	PT Flex 50-60-70-85 Part B
UFI code PT Flex 50 Liquid Rubber Part B:	4360-80PP-M00F-15FH
UFI code PT Flex 60 Liquid Rubber Part B:	8A50-Q0G3-V000-236X
UFI code PT Flex 70 Liquid Rubber Part B:	6W50-809W-000F-QG9D
UFI code PT Flex 85 Liquid Rubber Part B:	GD50-705H-500G-RETO

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

Identified applications: Component for Polyurethane Casting/Mould Rubber.
For industrial/professional use only.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency Phone Number:

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Directive (EC) No 1272/2008 and its amendments.

The product is classified according to the applicable legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Skin Sensitization Category 1 (H317)

Hazardous to the Aquatic Environment – Chronic Hazard Category 2 (H411)

For the full text of H-phrases mentioned in this section, see section 16.

2.2 Label elements:

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



Hazard pictograms:

Signal word: Warning.

Indications of danger:

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautions

Prevention:

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P261 Avoid breathing fumes, vapours, mists or sprays.
P272 Contaminated work clothing should not be allowed out of the work area.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Action:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P317 If skin irritation or rash occurs: Get medical help.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents and container in accordance with local, regional and national regulations.

Additional Information:

This is one part of a two-part system.
Read and understand the hazard information in Part B before use.

2.3 Other hazards:

Based on available data, not considered to meet the criteria of PBT, vPvB.
Based on available data, does not contain endocrine disrupting properties.

SECTION 3: Composition and information on ingredients**3.2 Mixtures:**

Chemical Name	CAS N°. EC N°.	CLP Classification	%
4-methyl-2,6-bis(methylthio)-1,3-benzenediamine	102093-68-5 676-681-9	Acute Toxicity – Oral – Cat. 4 (H302) Skin Sensitizer – Cat. 1 (H317) Aquatic Hazard – Chronic – Cat. 2 (H411) <u>Acute Toxicity Estimate (ATE)</u> Oral: LD50 (rat): >1,515 mg/kg Dermal: LD50 (rabbit): >2,000 mg/kg	5-10
2-methyl-4,6-bis(methylthio)-1,3-benzenediamine	104983-85-9 676-676-1	Acute Toxicity – Oral – Cat. 4 (H302) Skin Sensitizer – Cat. 1 (H317) Aquatic Hazard – Chronic – Cat. 2 (H411) <u>Acute Toxicity Estimate (ATE)</u> Oral: LD50 (rat): >1,515 mg/kg Dermal: LD50 (rabbit): >2,000 mg/kg	1-5
Neodecanoic acid, zinc salt	27253-29-8 248-370-4	Aquatic Hazard – Chronic – Cat. 3 (H412) M(Chronic) = 1	1-5
Diisononyl phthalate (DINP)	28553-12-0 249-079-5	Not Classified	0-7

Other ingredients are not classified as health and/or environmental hazards, and/or are present below cut-off/concentration limits.

For the full text of H-phrases mentioned in this section, see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures:****Eye contact:**

Rinse thoroughly with water for at least 15 minutes, keeping eyelids open to ensure material is washed out.
Get medical attention immediately.

Skin contact:

Remove contaminated clothing.
Wash the contact area thoroughly with soap and water.
Get medical attention if irritation or symptoms of exposure occur.
Wash clothing before reuse.
Discard items that cannot be decontaminated.

Inhalation:

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Remove person to fresh air.
Apply artificial respiration if necessary.
If breathing is difficult, oxygen should be administered by qualified personnel.
Get medical attention immediately.

Ingestion:

Do not induce vomiting unless directed to do so by medical personnel.
Get medical attention.

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

May cause allergic skin reaction in sensitized persons.

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

Get medical help if a skin irritation or rash occurs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Use water fog, foam, carbon dioxide or dry chemical.

Unsuitable extinguishing media:

Do not use solid water stream.

Solid stream of water into hot product may cause violent steam generation or eruption.

5.2 Special hazards arising from the substance or mixture:

Unusual Fire and Explosion Hazards:

Not classified as flammable or combustible.

Product will burn under fire conditions.

Combustion Products:

Oxides of carbon and nitrogen, oxides of sulphur, isocyanates, hydrogen cyanide, dense smoke.

5.3 Advice for firefighters:

Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing.
Cool fire exposed containers with water.

SECTION 6: Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Non-Emergency Personnel:

Remove all ignition sources.

Clear other non-emergency personnel from the area.

Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapours.

Ventilate area.

Caution – spill area may be slippery.

Emergency Personnel:

Remove all ignition sources.

Clear non-emergency personnel from the area.

Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapours.

Ventilate area.

Caution – spill area may be slippery.

6.2 Environmental precautions:

Avoid release to the environment.

Report spills and releases as required to appropriate authorities.

6.3 Methods and material for containment and cleaning up:

Containment:

Cover with an inert absorbent material and collect into an appropriate container for disposal.

Do not seal the container since CO₂ is generated on contact with moisture and dangerous pressure buildup can occur.

Clean-up:

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Decontaminate floor area with a mixture of water plus isopropyl alcohol (20%), household ammonia (10%), and detergent (2%).

Other Information:

No additional information available.

6.4 Reference to other sections:

Refer to Section 8 for protective clothing and Section 13 for disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling

Do not breathe fumes, vapours, mists or sprays.

Use with adequate ventilation.

Avoid contact with the eyes, skin and clothing.

Wash thoroughly after handling.

Do not eat, drink or smoke in the work area.

Keep container closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities:

Store indoors at temperatures between 12 and 35°C (55 and 95°F).

Store in original, unopened containers.

Avoid contact with strong oxidizers.

7.3 Specific end use:

None identified.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

None established.

Biological Exposure Index:

None Established

Derived No Effect Level (DNEL):

Substance Name	End Use	Exposure Route	Potential Health Effects	Value
4-methyl-2,6-bis(methylthio)-1,3-benzenediamine	Workers	Inhalation	Long term systemic effects	3.4 mg/m3
		Inhalation	Acute systemic effects	11.8 mg/m3
		Dermal	Long term systemic effects	0.39 mg/kg bw/day
	General Population	Inhalation	Long term systemic effects	0.94 mg/m3
		Dermal	Long term systemic effects	0.24 mg/kg bw/day
		Oral	Long term systemic effects	0.24 mg/kg bw/day
2-methyl-4,6-bis(methylthio)-1,3-benzenediamine	Workers	Inhalation	Long term systemic effects	3.4 mg/m3
		Inhalation	Acute systemic effects	11.8 mg/m3
		Dermal	Long term systemic effects	0.39 mg/kg bw/day
	General Population	Inhalation	Long term systemic effects	0.94 mg/m3
		Dermal	Long term systemic effects	0.24 mg/kg bw/day
		Oral	Long term systemic effects	0.24 mg/kg bw/day
Neodecanoic acid, zinc salt	Workers	Inhalation	Long term systemic effects	25.93 mg/m3
		Dermal	Long term systemic effects	2.21 mg/kg bw/day
	General Population	Inhalation	Long term systemic effects	7.67 mg/m3
		Dermal	Long term systemic effects	1.1 mg/kg bw/day
Diisononyl phthalate (DINP)	Workers	Oral	Long term systemic effects	2.21 mg/kg bw/day
		Inhalation	Long term systemic effects	51.72 mg/m3
	General Population	Dermal	Long term systemic effects	366 mg/kg bw/day
		Inhalation	Long term systemic effects	15.3 mg/m3
		Dermal	Long term systemic effects	220 mg/kg bw/day
		Oral	Long term systemic effects	4.4 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

For Neodecanoic acid, zinc salt (CAS 27253-29-8):

Compartment	PNEC
Fresh Water	124.1 µg/L

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Marine Water	36.7 µg/L
Freshwater Sediment	709.6 mg/kg sediment dw
Marine Sediment	340.4 mg/kg sediment dw
Soil	214.5 mg/kg soil dw
Sewage Treatment Plant	313.3 µg/L
Secondary Poisoning	0.02 g/kg food

For Diisononyl phthalate (DINP) (CAS 28553-12-0):

Compartment	PNEC
Soil	30 mg/kg soil dw

8.2 Exposure controls:

Engineering Controls:

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

An eyewash facility and washing facility should be available in the work area.

Individual Protection Measures

Eye/Face Protection:

Wear chemical safety goggles.

Skin Protection:

Hand Protection:

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms.

Suggested gloves are impervious and made of butyl rubber or nitrile rubber with a breakthrough time greater than 240 minutes with a protection class of 5 or higher and a thickness greater than 0.35 mm.

NOTICE: Glove selection may vary depending on the use/application of the mixture, duration of use in a workplace, other chemicals handled, potential bodily reactions to glove materials and instructions/specifications provided by the glove supplier.

Protective Clothing:

Wear impervious clothing of compatible material such as cotton to prevent skin contact and contamination of personal clothing.

Respiratory Protection:

If needed, an approved respirator with organic vapor cartridges may be used.

Respirator selection and use should be based on contaminant type, form and concentration.

Follow applicable regulations and good Industrial Hygiene practice.

Thermal Hazards:

Not classified as a flammable or combustible material.

Environmental Exposure Controls:

Toxic to aquatic life with long lasting effects.

Do not release into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	Liquid
Colour:	Amber
Odour:	Product not tested for odour
Melting Point/Freezing Point:	Product not tested for melting point or freezing point.
Boiling Point or Initial Boiling Point and Boiling Range:	Product not tested for boiling point or initial boiling point and boiling range
Flammability:	Not applicable
Lower and Upper Explosion Limit:	Product not tested for lower and upper explosion limit
Flash Point:	>177°C (>350°F)
Auto-Ignition Temperature:	Product not tested for auto-ignition temperature
Decomposition Temperature:	Product not tested for decomposition temperature
pH:	Not applicable

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Kinematic Viscosity:	500-1,500 cP @ 25°C
Solubility:	Insoluble in water
Partition Coefficient n-Octanol/Water (log value):	Reacts with water
Vapour Pressure:	<0.01 mm Hg @ 25°C
Density and/or Relative Density:	1.0 @ 25°C
Relative Vapour Density:	Product not tested for relative vapour density
Particle Characteristics:	Product not tested for particle characteristics

9.2 Other Information:

Information With Regard to Physical Hazard Classes:

Explosive Properties: Not explosive
Oxidizing Properties: Not oxidizing

Other Safety Characteristics:

None available

SECTION 10: Stability and reactivity

10.1 Reactivity:

Not normally reactive.

10.2 Chemical Stability:

Stable under recommended conditions.

10.3 Potential Hazardous Reactions:

Reaction with strong oxidizers generates heat.

10.4 Conditions to Avoid:

Avoid excessive heat.

10.5 Chemically Interacting Materials:

Avoid contact with strong oxidizers.

10.6 Hazardous Decomposition Products:

Thermal decomposition will generate oxides of carbon and nitrogen, organic acids, and other toxic organic compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute Toxicity:

Oral: Not acutely hazardous
Dermal: Not acutely hazardous
Inhalation: Not acutely hazardous

Skin Corrosion/Irritation:

Not classified.

Serious Eye Damage/Irritation:

Not classified.

Respiratory or Skin Sensitization:

Skin sensitizer Cat. 1 (calculation method).

Germ Cell Mutagenicity:

Components are not classified as mutagens.

Carcinogenicity:

Components are not classified as carcinogens.

Reproductive Toxicity:

Components are not classified as reproductive toxins.

STOT-Single Exposure:

No data available.

STOT-Repeated Exposure:

No data available.

Aspiration Hazard:

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No data available.

11.2 Information on Other Hazards:

Based on available data, does not contain endocrine disrupting properties.

SECTION 12: Ecological information

12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

Avoid release to the environment.

12.2 Persistence and Degradability:

Not readily biodegradable.

12.3 Bioaccumulation:

Not expected to bioaccumulate.

12.4 Mobility in Soil:

Log KOC: 6, adsorption on the floor occurs; Method: calculated

12.5 Results of PBT and vPvB assessment

Not considered to be PBT.

12.6 Endocrine Disruption Properties:

Based on available data, does not contain endocrine disruption properties.

12.7 Other Adverse Effects:

Not applicable

SECTION 13: Instructions for disposal

13.1 Waste treatment methods:

Waste From Residues/Unused Products:

Waste is classified as hazardous.

Dispose of in accordance with European Directives on waste and hazardous waste.

Dispose of in accordance with local regulations.

Contaminated Packaging:

Dispose of this container to a hazardous or special waste collection point.

European Waste Catalogue (EWC):

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information:

Do not flush to sewer or empty into drains.

Waste Codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Information relating to carriage

14.1 UN number

ADR/RID: UN 3082

IMDG: UN 3082

IATA/ICAO: UN 3082

14.2 Proper load name according to UN Model Regulations

ADR/RID: Environmentally hazardous substance, liquid, n.o.s.
(di(methylthio)toluenediamine)

IMDG: Environmentally hazardous substance, liquid, n.o.s.
(di(methylthio)toluenediamine)

IATA/ICAO: Environmentally hazardous substance, liquid, n.o.s.
(di(methylthio)toluenediamine)

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA/ICAO: 9

14.4 Packing group

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ADR/RID: III
IMDG: III
IATA/ICAO: III

14.5 Environmental hazards

ADR/RID: Marine pollutant
IMDG: Marine pollutant
IATA/ICAO: Marine pollutant

14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Notes: Not applicable for product, as supplied.

SECTION 15: Legally required information

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

The mixture or substance is not subject to Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer, Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC, and Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals.

Seveso III Directive (2012/18/EU) on the control of major-accident hazards:

Hazard Category E2

REACH:

Substances in this formulation imported to EU in >1 tonne/year are registered.

REACH Restriction:

These products do not contain SVHCs.

Entry 52 of Annex XVII regarding restricted plasticizers applies to this mixture.

This product contains a plasticizer (Diisononylphthalate, CAS 28553-12-0) that is restricted from being used in toys and childcare articles that can be placed in the mouth (2005/84/EC).

International Inventories:

To be determined.

15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has not been conducted.

SECTION 16: Other information

SDS Revision Note:

EU-version SDS: March 1, 2022; Added UFI numbers: February 21, 2023; Edited formatting, reorganized sections and included additional sections/information to be in compliance with CLP regulations. Edited composition table. Corrected classifications: March 20, 2023; Included distributor information, included additional information for poison centres, included additional information in composition table, added additional information about incompatible materials in section 7.2, included additional information regarding required gloves and clothing, clarified lack of data in section 9.1, clarified information regarding plasticizer in section 15.1: March 29, 2023; Added DNEL and ATE values: April 4, 2023; Updated DNEL and PNEC information: February 13, 2024

Full text of H-phrases as referred to in sections 2 and 3.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Key Literature References and Sources of Data:

Raw material safety data sheets and internal sources.

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Method of Evaluating Information Referred to in Article 9 of Regulation (EC) No 1272/2008:

Calculation method was utilized.

Abbreviations and Acronym Key:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECL - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Training advice:

All personnel using/handling this product must be trained in the correct handling of chemicals and the necessity and use of technical measures and protective equipment.

The information contained herein is considered accurate; however, Polytek® Development Corp. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.

Recommended Uses and Restrictions:

intended for industrial or professional use only.