

SAFETY DATA SHEET



SimDist calibration sample - D2887EP, Part Number CP741034

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

1.1 Product identifier

Product name : SimDist calibration sample - D2887EP, Part Number CP741034
Part No. (Kit) : CP741034
Part No. : Polywax 655 CP743086
SimDist calibration sample - D2887 CP741031

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

Identified uses	
Polywax 655	0.2 g
SimDist calibration sample - D2887	1 x 1 ml ampoule

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Polywax 655 Mono-constituent substance
SimDist calibration Mixture
sample - D2887

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

SimDist calibration sample - D2887

H225 FLAMMABLE LIQUIDS - Category 2
H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H361fd REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2
H372 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
H304 ASPIRATION HAZARD - Category 1
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

See Section 16 for the full text of the H statements declared above.


See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification

Hazard pictograms	: SimDist calibration sample - D2887	
Signal word	: Polywax 655 SimDist calibration sample - D2887	No signal word. Danger
Hazard statements	: Polywax 655 SimDist calibration sample - D2887	No known significant effects or critical hazards. H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. H304 - May be fatal if swallowed and enters airways. H372 - Causes damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	: Polywax 655 SimDist calibration sample - D2887	Not applicable. P201 - Obtain special instructions before use. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapour.
Response	: Polywax 655 SimDist calibration sample - D2887	Not applicable. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Polywax 655 SimDist calibration sample - D2887	Not applicable. P405 - Store locked up.
Disposal	: Polywax 655 SimDist calibration sample - D2887	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: SimDist calibration sample - D2887	- carbon disulphide
Supplemental label elements	: Polywax 655 SimDist calibration sample - D2887	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Polywax 655 SimDist calibration sample - D2887	Not applicable. Not applicable.
Special packaging requirements		
Tactile warning of danger	: Polywax 655 SimDist calibration sample - D2887	Not applicable. Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Other hazards which do not result in classification : Polywax 655
 SimDist calibration sample - D2887
 May form explosible dust-air mixture if dispersed.
 None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : Polywax 655
 SimDist calibration sample - D2887
 Mono-constituent substance
 Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Polywax 655 Ethene, homopolymer	CAS: 9002-88-4	100	Not classified.	[A]
SimDist calibration sample - D2887 Carbon disulphide	EC: 200-843-6 CAS: 75-15-0 Index: 006-003-00-3	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361fd (Fertility and Unborn child) STOT RE 1, H372	[1] [2]
Tetradecane	EC: 211-096-0 CAS: 629-59-4	≤1	Acute Tox. 3, H331 Asp. Tox. 1, H304 EUH066	[1]
nonane	EC: 203-913-4 CAS: 111-84-2	≤0.9	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Octane	EC: 203-892-1 CAS: 111-65-9 Index: 601-009-00-8	≤0.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
n-Heptane	EC: 205-563-8 CAS: 142-82-5 Index: 601-008-00-2	≤0.68	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
n-Hexane	EC: 203-777-6 CAS: 110-54-3 Index: 601-037-00-0	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

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SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Polywax 655 SimDist calibration sample - D2887	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Polywax 655 SimDist calibration sample - D2887	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Polywax 655 SimDist calibration sample - D2887	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Polywax 655 SimDist calibration sample - D2887	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 4: First aid measures

Protection of first-aiders : Polywax 655
SimDist calibration sample - D2887

No action shall be taken involving any personal risk or without suitable training.
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Polywax 655
SimDist calibration sample - D2887

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Causes serious eye irritation.

Inhalation : Polywax 655
SimDist calibration sample - D2887

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
No known significant effects or critical hazards.

Skin contact : Polywax 655
SimDist calibration sample - D2887

No known significant effects or critical hazards.
Causes skin irritation.

Ingestion : Polywax 655
SimDist calibration sample - D2887

No known significant effects or critical hazards.
May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : Polywax 655
SimDist calibration sample - D2887

Adverse symptoms may include the following:
irritation
redness
Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Polywax 655
SimDist calibration sample - D2887

Adverse symptoms may include the following:
respiratory tract irritation
coughing
Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Polywax 655
SimDist calibration sample - D2887

No specific data.
Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Polywax 655
SimDist calibration sample - D2887

No specific data.
Adverse symptoms may include the following:
nausea or vomiting
reduced foetal weight
increase in foetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

Notes to physician	: Polywax 655 SimDist calibration sample - D2887	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Polywax 655 SimDist calibration sample - D2887	No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Polywax 655 SimDist calibration sample - D2887	Use dry chemical powder. Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Polywax 655 SimDist calibration sample - D2887	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Polywax 655 SimDist calibration sample - D2887	May form explosible dust-air mixture if dispersed. Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Polywax 655 SimDist calibration sample - D2887	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde. Acrolein Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

5.3 Advice for firefighters

Special precautions for fire-fighters	: Polywax 655 SimDist calibration sample - D2887	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

: Polywax 655

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Polywax 655

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

SimDist calibration sample - D2887

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: Polywax 655

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SimDist calibration sample - D2887

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Polywax 655

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SimDist calibration sample - D2887

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: Polywax 655

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,

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SECTION 6: Accidental release measures

or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Polywax 655

Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

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Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Polywax 655

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Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Storage

: Polywax 655

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SimDist calibration sample - D2887

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
SimDist calibration sample - D2887 P5c	5000	50000

7.3 Specific end use(s)

Recommendations

: Polywax 655
SimDist calibration sample - D2887

Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial sector specific solutions

: Polywax 655
SimDist calibration sample - D2887

Not applicable.
Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SimDist calibration sample - D2887 Carbon disulphide	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 5 ppm 8 hours. TWA: 15 mg/m ³ 8 hours.
n-Heptane	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 500 ppm 8 hours.
n-Hexane	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 72 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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SECTION 8: Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Polywax 655 SimDist calibration sample - D2887	Solid. [Powder.] Liquid. [Clear.]
Colour	: Polywax 655 SimDist calibration sample - D2887	Greyish-white. Colourless.
Odour	: Polywax 655 SimDist calibration sample - D2887	Odourless. Odourless.
Odour threshold	: Polywax 655 SimDist calibration sample - D2887	Not available. Not available.
pH	: Polywax 655 SimDist calibration sample - D2887	Not available. Not available.
Melting point/freezing point	: Polywax 655 SimDist calibration sample - D2887	85 to 110°C -100°C
Initial boiling point and boiling range	: Polywax 655 SimDist calibration sample - D2887	Decomposition temperature: 290°C 46°C
Flash point	: Polywax 655 SimDist calibration sample - D2887	Closed cup: 341°C Closed cup: -30°C
Evaporation rate	: Polywax 655 SimDist calibration sample - D2887	Not available. 22.6 (butyl acetate = 1)
Flammability (solid, gas)	: Polywax 655 SimDist calibration sample - D2887	Fine powder forms flammable and explosive mixtures in air. Emits acrid smoke and irritating fumes when heated to decomposition. Not applicable.
Upper/lower flammability or explosive limits	: Polywax 655 SimDist calibration sample - D2887	Not available. Lower: 1.3% Upper: 50%
Vapour pressure	: Polywax 655 SimDist calibration sample - D2887	Not available. 40 kPa [room temperature]
Vapour density	: Polywax 655 SimDist calibration sample - D2887	Not available. 2.6 [Air = 1]
Relative density	: Polywax 655 SimDist calibration sample - D2887	0.91 to 0.96 1.26 [Water = 1]

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SECTION 9: Physical and chemical properties

Solubility(ies)	: Polywax 655 SimDist calibration sample - D2887	Insoluble in the following materials: cold water and hot water. Partially soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Polywax 655 SimDist calibration sample - D2887	Not available. Not available.
Auto-ignition temperature	: Polywax 655 SimDist calibration sample - D2887	330 to 410°C 90.05°C
Decomposition temperature	: Polywax 655 SimDist calibration sample - D2887	290°C Not available.
Viscosity	: Polywax 655 SimDist calibration sample - D2887	Not available. Not available.
Explosive properties	: Polywax 655 SimDist calibration sample - D2887	Not available. Not available.
Oxidising properties	: Polywax 655 SimDist calibration sample - D2887	Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Polywax 655 SimDist calibration sample - D2887	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Polywax 655 SimDist calibration sample - D2887	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Polywax 655 SimDist calibration sample - D2887	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Polywax 655 SimDist calibration sample - D2887	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
10.5 Incompatible materials	: Polywax 655 SimDist calibration sample - D2887	Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products : Polywax 655 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SimDist calibration sample - D2887 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

Product/ingredient name	Result	Species	Dose	Exposure
Polywax 655 Ethene, homopolymer	LD50 Oral	Rat	>8 g/kg	-
SimDist calibration sample - D2887 Carbon disulphide	LC50 Inhalation Vapour	Rat	10.35 mg/l	4 hours
	LD50 Oral	Rat	1200 mg/kg	-
Tetradecane	LC50 Inhalation Vapour	Rat	9.3 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
nonane	LC50 Inhalation Vapour	Rat	3200 ppm	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Octane	LC50 Inhalation Vapour	Rat	118 g/m ³	4 hours
	LC50 Inhalation Vapour	Rat	25260 ppm	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
n-Heptane	LC50 Inhalation Vapour	Rat	103 g/m ³	4 hours
	LC50 Inhalation Vapour	Rat	48000 ppm	4 hours
n-Hexane	LC50 Inhalation Vapour	Rat - Male, Female	>31.86 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-

Acute toxicity estimates

Route	ATE value
SimDist calibration sample - D2887 Inhalation (vapours)	1550 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SimDist calibration sample - D2887 nonane	Skin - Moderate irritant	Rat	-	96 hours 300 microliters	-
n-Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
SimDist calibration sample - D2887 nonane Octane n-Heptane n-Hexane	Category 3 Category 3 Category 3 Category 3	Not applicable. Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SimDist calibration sample - D2887 Carbon disulphide n-Hexane	Category 1 Category 2	Not determined Not determined	Not determined Not determined

Aspiration hazard

Product/ingredient name	Result
SimDist calibration sample - D2887 SimDist calibration sample - D2887 Tetradecane nonane Octane n-Heptane n-Hexane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Polywax 655 Not available.
 SimDist calibration sample - D2887 Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : Polywax 655 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
 SimDist calibration sample - D2887 No known significant effects or critical hazards.

Ingestion : Polywax 655 No known significant effects or critical hazards.
 SimDist calibration sample - D2887 May be fatal if swallowed and enters airways.

Skin contact : Polywax 655 No known significant effects or critical hazards.
 SimDist calibration sample - D2887 Causes skin irritation.

Eye contact : Polywax 655 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
 SimDist calibration sample - D2887 Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Polywax 655 Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 SimDist calibration sample - D2887 Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

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SECTION 11: Toxicological information

Ingestion	: Polywax 655 SimDist calibration sample - D2887	No specific data. Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Polywax 655 SimDist calibration sample - D2887	No specific data. Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Polywax 655 SimDist calibration sample - D2887	Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: pain or irritation watering redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Polywax 655 SimDist calibration sample - D2887	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Polywax 655 SimDist calibration sample - D2887	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Polywax 655 SimDist calibration sample - D2887	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Polywax 655 SimDist calibration sample - D2887	No known significant effects or critical hazards. Suspected of damaging the unborn child.
Developmental effects	: Polywax 655 SimDist calibration sample - D2887	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Polywax 655 SimDist calibration sample - D2887	No known significant effects or critical hazards. Suspected of damaging fertility.

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SECTION 11: Toxicological information

Other information : Polywax 655 Not available.
 SimDist calibration sample - D2887 Adverse symptoms may include the following: Narcotic effect. May cause nervous system disturbances.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SimDist calibration sample - D2887			
Carbon disulphide	Acute EC50 21000 µg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Acute LC50 2100 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
n-Heptane	Acute LC50 2.99 mg/l Fresh water	Fish - Poecilia reticulata - Young	96 hours
	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
n-Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SimDist calibration sample - D2887			
Carbon disulphide	-	-	Readily
Tetradecane	-	-	Readily
Octane	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SimDist calibration sample - D2887			
Carbon disulphide	1.94	19.5	low
Tetradecane	8.11	-	high
nonane	5.65	105	low
Octane	5.18	198.7	low
n-Heptane	4.66	552	high
n-Hexane	4	501.187	high

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SimDist calibration sample - D2887EP, Part Number CP741034

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

Additional information

Remarks : De minimis quantities

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

<input checked="" type="checkbox"/> Polywax 655	Not applicable.
SimDist calibration sample - D2887	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Date of issue/Date of revision : 19/01/2018

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SECTION 15: Regulatory information

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

SimDist calibration sample - D2887
P5c

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

SimDist calibration sample - D2887EP, Part Number CP741034

SECTION 16: Other information

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
SimDist calibration sample - D2887 Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361fd (Fertility and Unborn child) STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method Calculation method Expert judgment Calculation method

Full text of abbreviated H statements

SimDist calibration sample - D2887 H225 H226 H304 H315 H319 H331 H332 H336 H361f H361fd H372 H373 H400 H410 H411 H412	Highly flammable liquid and vapour. Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of damaging fertility. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

SimDist calibration sample - D2887 Acute Tox. 3, H331 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Asp. Tox. 1, H304 EUH066 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Repr. 2, H361f Repr. 2, H361fd Skin Irrit. 2, H315 STOT RE 1, H372 STOT RE 2, H373	ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY (Fertility) - Category 2 REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
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SimDist calibration sample - D2887EP, Part Number CP741034

SECTION 16: Other information

STOT SE 3, H336

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
(Narcotic effects) - Category 3

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Version : 2

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