



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 21-Sep-2021

Revision Number 1

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

1.1. Product identifier

Product Code(s)	DRE-GA20101600HE
Product Name	Aroclor 1016 1000 µg/mL in Hexane
EC No	-
CAS No	-
Unique Formula Identifier (UFI)	MGS0-E0G8-F00V-CU2E
Pure substance/mixture	Mixture
Formula	-
Molecular weight	-

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

Recommended use	Laboratory use
Uses advised against	No information available

1.3. Details of the supplier of the safety data sheet

Supplier

LGC Limited
Queens Road
Teddington
Middlesex TW11 0LY
UNITED KINGDOM
:+44 (0) 20 8943 7000
Fax :+44 (0) 20 8943 2767
eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

For further information, please contact

E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident



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Revision Number 1

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Spill, Leak, Fire Exposure, or Accident
Call CHEMTREC:
USA & Canada 1-800-424-9300
Rest of the world +1 703-741-5970

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	(+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English.
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Carcinogenicity	Category 1B - (H350)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)
Flammable liquids	Category 2 - (H225)



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2.2. Label elements

203-777-6

Contains n-Hexane, Aroclor 1016



Signal word

Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H350 - May cause cancer

H361f - Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

H225 - Highly flammable liquid and vapour

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P370 + P378 - In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish

P391 - Collect spillage

P403 + P235 - Store in a well-ventilated place. Keep cool

2.3. Other hazards

Toxic to aquatic life.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances



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n-Hexane	-	-
Aroclor 1016	-	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
n-Hexane 110-54-3	80 - 100	-	203-777-6	Skin Irrit. 2 (H315) Repr. 2 (H361f) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	STOT RE 2 :: C>=5%		
Aroclor 1016 12674-11-2	0.1 - 1	-	622-826-6	Carc. 1B (H350) Repr. 2 (H361) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	STOT RE 2 :: C>=0.005%		

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
n-Hexane 110-54-3	25000	3000	No data available	169.1681	No data available
Aroclor 1016 12674-11-2	2300	No data available	No data available	No data available	No data available



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This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

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

Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.



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Revision Number 1

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Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.
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7.3. Specific end use(s)

Identified uses	
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL 80 ppm STEL 288 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72.0 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ *
Aroclor 1016 12674-11-2	-	-	-	-	TWA: 0.1 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 70 mg/m ³ Ceiling: 200 mg/m ³ *	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 630 ppm STEL: 2300 mg/m ³ iho*
Aroclor 1016 12674-11-2	-	TWA: 0.5 mg/m ³ Ceiling: 1 mg/m ³ *	TWA: 0.01 mg/m ³ H*	TWA: 0.01 mg/m ³ STEL: 0.03 mg/m ³ A*	TWA: 0.003 mg/m ³ iho*
Chemical name	France	Germany	Germany MAK	Greece	Hungary
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 1500 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ Peak: 400 ppm Peak: 1440 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 72 mg/m ³ *
Aroclor 1016 12674-11-2	-	TWA: 0.003 mg/m ³	-	-	-
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 60 ppm STEL: 216 mg/m ³ Sk*	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 50 ppm TWA: 176 mg/m ³ *	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 300 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³
Aroclor 1016 12674-11-2	TWA: 0.1 mg/m ³ Sk*	-	-	TWA: 1 mg/m ³	* TWA: 0.01 mg/m ³ STEL: 0.03 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 72 mg/m ³ STEL: 144 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 30 ppm STEL: 108 mg/m ³	TWA: 72 mg/m ³ *
Aroclor 1016 12674-11-2	-	-	-	TWA: 0.01 mg/m ³ STEL: 0.03 mg/m ³ H*	TWA: 1 mg/m ³ *



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m³ P*	TWA: 20 ppm TWA: 72 mg/m³ STEL: 1000 mg/m³	TWA: 20 mg/m³ TWA: 72 mg/m³ Ceiling: 140 mg/m³	TWA: 20 ppm TWA: 72 mg/m³ STEL: STEL mg/m³ STEL: STEL ppm	TWA: 20 ppm TWA: 72 mg/m³
Aroclor 1016 12674-11-2	-	-	TWA: 0.1 mg/m³ *	TWA: 0.003 mg/m³ STEL: STEL mg/m³ *	-
Chemical name	Sweden		Switzerland		United Kingdom
n-Hexane 110-54-3	NGV: 20 ppm NGV: 72 mg/m³ Bindande KGV: 50 ppm Bindande KGV: 180 mg/m³		TWA: 50 ppm TWA: 180 mg/m³ STEL: 400 ppm STEL: 1440 mg/m³ H*		TWA: 20 ppm TWA: 72 mg/m³ STEL: 60 ppm STEL: 216 mg/m³
Aroclor 1016 12674-11-2	NGV: 0.01 mg/m³ *		-		TWA: 0.1 mg/m³ Sk*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
n-Hexane 110-54-3	-	-	-	150 µg/L - blood (n-Hexane) - during exposure 40 ppm - final exhaled air (n-Hexane) - during exposure 0.20 mg/g Creatinine - urine (2-Hexanol) - at the end of the work shift 5.30 mg/g Creatinine - urine (2,5-Hexanedione) - at the end of the work shift	-
Aroclor 1016 12674-11-2	-	-	-	15 µg/L - plasma (sum of PCB 28, 52, 101, 138, 153 and 180) - not critical	-
Chemical name	Denmark	Finland	France	Germany	Germany
n-Hexane 110-54-3	-	-	5 mg/g creatinine - urine (2,5-Hexanedione) - end of shift	5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hex	5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hex



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

				anone (after hydrolysis) end of shift) 5 mg/L - BAT (end of exposure or end of shift) urine 5 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine	anone (after hydrolysis) end of shift)
Aroclor 1016 12674-11-2	-	-	-	15 µg/L (plasma - sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153, PCB 180; assumed not to be toxic to reproduction up to a concentration of 3.5 µg PCB indicator congeners/L plasma no restriction) 15 µg/L - BAT (not fixed) plasma 0.02 µg/L - BAR (not fixed) plasma <0.01 µg/L - BAR (not fixed) plasma	15 µg/L (plasma - sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153, PCB 180; assumed not to be toxic to reproduction up to a concentration of 3.5 µg PCB indicator congeners/L plasma no restriction)
Chemical name	Hungary	Ireland	Italy	Italy REL	
n-Hexane 110-54-3	2 mg/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift) 18 µmol/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift)	0.4 mg/L (urine - 2,5-Hexanedione end of shift at end of workweek)	-	0.5 mg/L - urine (2,5-Hexanedione (without hydrolysis)) - end of shift at end of workweek	
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
n-Hexane 110-54-3	-	-	-	5 mg/L (urine - 2,5-Hexanedione end of exposure or work shift) 5 mg/L (urine - 4,5-Dihydroxy-2-hexanone end of exposure or work shift)	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
n-Hexane 110-54-3	5 mg/L - urine (2,5-Hexandione and 4,5-Dihydroxy-2-hexanone (after hydrolysis)) - at	0.2 mg/L (urine - 2,5-Hexanedione end of workweek)	5 mg/L (urine - 2,5-Hexanedione plus 4,5-Dihydroxy-2-hexanone end of shift)	-	



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

	the end of the work shift			
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Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.

Hand protection Wear protective nitrile rubber gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective nitrile rubber gloves		

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour colourless
Odour Petroleum distillates.
Odour threshold No information available



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Revision Number 1

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	-95 °C	None known
Boiling point / boiling range	69 °C	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	8,9 Vol% - 319 g/m ³	
Lower flammability or explosive limits	1,0 Vol% - 35 g/m ³	
Flash point	<-20 °C	None known
Autoignition temperature	230 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	0.47 - 0.55 mm ² /s	@ 20°C
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	3.9	None known
Vapour pressure	162 hPa	@ 20°C
Relative density	0.66	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	2.97	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Molecular weight -
Molecular formula -

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.



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Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
n-Hexane	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 169mg/L (Rat) 4 h
Aroclor 1016	= 2300 mg/kg (Rat)		

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
n-Hexane	Repr. 2

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



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

Aspiration hazard May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
n-Hexane	-	LC50: 2.1 - 2.98mg/L (96h, Pimephales promelas)	-	-
Aroclor 1016	-	LC50: =0.135mg/L (96h, Oncorhynchus mykiss) LC50: =0.46mg/L (96h, Lepomis macrochirus)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
n-Hexane	3.9

12.4. Mobility in soil

Mobility in soil No information available.



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Revision date 21-Sep-2021

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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
n-Hexane	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	UN1208
14.2 UN proper shipping name	Hexanes mixture
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1208, Hexanes mixture, 3, II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
ERG Code	3H

IMDG

14.1 UN number or ID number	UN1208
14.2 UN proper shipping name	Hexanes mixture
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1208, Hexanes mixture, 3, II, (0°C c.c.), Marine pollutant



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Revision date 21-Sep-2021

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DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

14.5 Marine pollutant P
Environmental hazards Yes
14.6 Special precautions for user
Special Provisions None
EmS-No F-E, S-D No information available
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number UN1208
14.2 UN proper shipping name Hexanes mixture
14.3 Transport hazard class(es) 3
14.4 Packing group II
Description UN1208, Hexanes mixture, 3, II, Environmentally Hazardous
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions None
Classification code F1

ADR

14.1 UN number or ID number UN1208
14.2 UN proper shipping name Hexanes mixture
14.3 Transport hazard class(es) 3
14.4 Packing group II
Description UN1208, Hexanes mixture, 3, II, (D/E), Environmentally Hazardous
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions None
Classification code F1
Tunnel restriction code (D/E)

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
n-Hexane 110-54-3	RG 59, RG 84	-

Water hazard class (WGK) strongly hazardous to water (WGK 3)

Netherlands



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Revision date 21-Sep-2021

Revision Number 1

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Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
n-Hexane	-	-	Fertility Category 2

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA

DSL/NDL

EINECS/ELINCS

ENCS

IECSC

KECL

PICCS

AICS

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Legend:



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Revision date 21-Sep-2021

Revision Number 1

DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H361 - Suspected of damaging fertility or the unborn child
H361f - Suspected of damaging fertility
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method



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Revision date 21-Sep-2021

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DRE-GA20101600HE - Aroclor 1016 1000 µg/mL in Hexane

Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	On basis of test data

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AELG(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 21-Sep-2021

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet