



# 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 01-Feb-2024

Revision Number 1

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

### 1.1. Product identifier

Product Code(s)	DRE-YA08060300HE
Product Name	Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane
Form	Not applicable
Unique Formula Identifier (UFI)	H0VS-80YY-M00W-03VD
Pure substance/mixture	Mixture

### 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](http://www.lgcstandards.com)

For further information, please contact

E-mail address [sds-request@lgcgroup.com](mailto:sds-request@lgcgroup.com)

### 1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-5970



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
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)

### 2.2. Label elements

Contains n-Hexane



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane



**Signal word**  
Danger

## Hazard statements

H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H336 - May cause drowsiness or dizziness  
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  
EUH208 - Contains Dicyclohexyl phthalate May produce an allergic reaction.

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

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, CO<sub>2</sub>, 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

Harmful 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 Contains a known or suspected endocrine disruptor.

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
n-Hexane	-	-
Phthalic acid,bis-butoxyethyl ester	-	-
Phthalic acid, bis-nonyl ester	-	-



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Phthalic acid, bis-methylglycol ester	-	-
Phthalic acid, bis-2-ethoxyethyl ester	-	-
Dioctyl phthalate	-	-
di-n-pentyl phthalate	-	-
Dimethyl phthalate	-	-
Diisobutyl phthalate	Endocrine disrupting properties	Endocrine disrupting properties
Dihexyl phthalate	-	-
Diethyl phthalate	-	-
Dicyclohexyl phthalate	Endocrine disrupting properties	-
Dibutyl phthalate	Endocrine disrupting properties	Endocrine disrupting properties
Di(2-ethylhexyl) phthalate	Endocrine disrupting properties	Endocrine disrupting properties
Benzyl butyl phthalate	Endocrine disrupting properties	Endocrine disrupting properties
Benzyl benzoate	-	-

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Diisobutyl phthalate	Endocrine disrupting properties
Dibutyl phthalate	Endocrine disrupting properties
Di(2-ethylhexyl) phthalate	Endocrine disrupting properties
Benzyl butyl phthalate	Endocrine disrupting properties

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	EC No (EU Index 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%		
Phthalic	0.1 - 1	-	204-213-1	Skin Irrit. 2 (H315)			



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

acid,bis-butoxyethyl ester 117-83-9				Eye Irrit. 2 (H319) Repr. 2 (H361) STOT SE 3 (H335) Aquatic Chronic 4 (H413)			
Phthalic acid, bis-nonyl ester 84-76-4	0.1 - 1	-	201-560-0	Eye Irrit. 2 (H319) 2 (H361)			
Phthalic acid, bis-methylglycol ester 117-82-8	0.1 - 1	-	204-212-6	Repr. 1B (H360Df)			
Phthalic acid, bis-4-methyl-2-pentyl ester 146-50-9	0.1 - 1	-	690-072-5	Repr. 2 (H361)			
Phthalic acid, bis-2-ethoxyethyl ester 605-54-9	0.1 - 1	-	210-090-5	Repr. 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Dioctyl phthalate 117-84-0	0.1 - 1	-	(607-480-00-6) 204-214-7	Repr. 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
di-n-pentyl phthalate 131-18-0	0.1 - 1	-	205-017-9	Repr. 1B (H360FD) Aquatic Acute 1 (H400)			
Dimethyl phthalate 131-11-3	0.1 - 1	-	205-011-6	-			
Diisobutyl phthalate 84-69-5	0.1 - 1	-	201-553-2 (607-623-00-2)	Repr. 1B (H360Df) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Dihexyl phthalate 84-75-3	0.1 - 1	-	201-559-5 (607-702-00-1)	Repr. 1B (H360FD)			
Diethyl phthalate	0.1 - 1	-	201-550-6	-			



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

84-66-2							
Dicyclohexyl phthalate 84-61-7	0.1 - 1	-	201-545-9	Skin Sens. 1 (H317) Repr. 1B (H360D) Aquatic Chronic 3 (H412)			
Dibutyl phthalate 84-74-2	0.1 - 1	-	201-557-4 (607-318-00-4)	Repr. 1B (H360Df) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Di(2-ethylhexyl) phthalate 117-81-7	0.1 - 1	-	(607-317-00-9) 204-211-0	Repr. 1B (H360FD)			
Benzyl butyl phthalate 85-68-7	0.1 - 1	-	(607-430-00-3) 201-622-7	Repr. 1B (H360Df) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Benzyl benzoate 120-51-4	0.1 - 1	-	204-402-9	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400)			

**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
Phthalic acid,bis-butoxyethyl ester 117-83-9	8380	No data available	No data available	No data available	No data available
Phthalic acid, bis-nonyl ester 84-76-4	2000	No data available	No data available	No data available	No data available
Phthalic acid, bis-methylglycol ester	4400	No data available	No data available	No data available	No data available



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

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
117-82-8					
Phthalic acid, bis-4-methyl-2-pentyl ester 146-50-9	15800	No data available	No data available	No data available	No data available
Diethyl phthalate 117-84-0	30000	No data available	No data available	No data available	No data available
Dimethyl phthalate 131-11-3	6800	12000	No data available	No data available	No data available
Diisobutyl phthalate 84-69-5	15000	No data available	No data available	No data available	No data available
Dihexyl phthalate 84-75-3	29600	20000	No data available	No data available	No data available
Diethyl phthalate 84-66-2	8600	11200	6.96	No data available	No data available
Dicyclohexyl phthalate 84-61-7	21300	No data available	No data available	No data available	No data available
Dibutyl phthalate 84-74-2	7499	20000	15.68	No data available	No data available
Di(2-ethylhexyl) phthalate 117-81-7	30000	25000	No data available	No data available	No data available
Benzyl butyl phthalate 85-68-7	2330	6700	6.7	No data available	No data available
Benzyl benzoate 120-51-4	500	4000	No data available	No data available	No data available

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Di(2-ethylhexyl) phthalate	117-81-7	X
Phthalic acid, bis-methylglycol ester	117-82-8	X
di-n-pentyl phthalate	131-18-0	X
Dicyclohexyl phthalate	84-61-7	X
Diisobutyl phthalate	84-69-5	X
Dibutyl phthalate	84-74-2	X
Dihexyl phthalate	84-75-3	X
Benzyl butyl phthalate	85-68-7	X

## SECTION 4: First aid measures



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

### 4.1. Description of first aid measures

General advice	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 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 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.
----------	--

### 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.
-----------------	---

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.





# 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 01-Feb-2024

Revision Number 1

**DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane**

---

**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.

**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.

---



# 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 01-Feb-2024

Revision Number 1

**DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane**

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **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**

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. 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.

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

#### **Storage Conditions**

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. 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.

### 7.3. Specific end use(s)

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

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



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

### 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 <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL 80 ppm STEL 288 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72.0 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> Sk*
Phthalic acid, bis-nonyl ester 84-76-4	-	TWA: 5 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup>
Diethyl phthalate 117-84-0	-	TWA: 3 mg/m <sup>3</sup> STEL 5 mg/m <sup>3</sup>	-	STEL: 5.0 mg/m <sup>3</sup> TWA: 5.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Dimethyl phthalate 131-11-3	-	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diisobutyl phthalate 84-69-5	-	-	-	-	TWA: 5 mg/m <sup>3</sup>
Diethyl phthalate 84-66-2	-	TWA: 3 mg/m <sup>3</sup> STEL 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Dicyclohexyl phthalate 84-61-7	-	TWA: 5 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup> Skin Sensitisation
Dibutyl phthalate 84-74-2	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Di(2-ethylhexyl) phthalate 117-81-7	-	TWA: 5 mg/m <sup>3</sup> STEL 50 mg/m <sup>3</sup>	-	STEL: 5.0 mg/m <sup>3</sup> TWA: 5.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Benzyl butyl phthalate 85-68-7	-	TWA: 3 mg/m <sup>3</sup> STEL 5 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup> Sk* Ceiling: 200 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 40 ppm STEL: 144 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 500 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 630 ppm STEL: 2300 mg/m <sup>3</sup> Sk*
Phthalic acid, bis-nonyl ester 84-76-4	-	-	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
Diethyl phthalate 117-84-0	-	-	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
di-n-pentyl phthalate 131-18-0	-	-	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
Dimethyl phthalate 131-11-3	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diisobutyl phthalate 84-69-5	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-	-



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Dihexyl phthalate 84-75-3	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup> esters, not specified elsewhere in the list	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
Diethyl phthalate 84-66-2	-	-	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Dicyclohexyl phthalate 84-61-7	-	-	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
Dibutyl phthalate 84-74-2	-	TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
Di(2-ethylhexyl) phthalate 117-81-7	-	TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Benzyl butyl phthalate 85-68-7	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup> Peak: 400 ppm Peak: 1440 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 72 mg/m <sup>3</sup> TWA: 20 ppm Sk*
Dimethyl phthalate 131-11-3	TWA: 5 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-
Diethyl phthalate 84-66-2	TWA: 5 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-
Dibutyl phthalate 84-74-2	TWA: 5 mg/m <sup>3</sup>	TWA: 0.05 ppm TWA: 0.58 mg/m <sup>3</sup>	TWA: 0.05 ppm TWA: 0.58 mg/m <sup>3</sup> Peak: 0.1 ppm Peak: 1.16 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-
Di(2-ethylhexyl) phthalate 117-81-7	TWA: 5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> H*	TWA: 2 mg/m <sup>3</sup> Peak: 4 mg/m <sup>3</sup> *	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup> *
Benzyl butyl phthalate 85-68-7	-	TWA: 20 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup> Peak: 40 mg/m <sup>3</sup>	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 60 ppm STEL: 216 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 176 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 300 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>
Phthalic acid, bis-nonyl ester 84-76-4	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	-	TWA: 1 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Di-octyl phthalate 117-84-0	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	-	TWA: 1 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
di-n-pentyl phthalate 131-18-0	-	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Dimethyl phthalate 131-11-3	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 0.3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Diisobutyl phthalate 84-69-5	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	-	TWA: 1 mg/m <sup>3</sup>	-
Diethyl phthalate 84-75-3	-	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Diethyl phthalate 84-66-2	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Dicyclohexyl phthalate 84-61-7	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Dibutyl phthalate 84-74-2	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Di(2-ethylhexyl) phthalate 117-81-7	-	-	TWA: 5 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Benzyl butyl phthalate 85-68-7	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 40 ppm STEL: 144 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 30 ppm STEL: 108 mg/m <sup>3</sup>	TWA: 72 mg/m <sup>3</sup> Sk*
Diethyl phthalate 117-84-0	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-
Dimethyl phthalate 131-11-3	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Diethyl phthalate 84-66-2	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
Dibutyl phthalate 84-74-2	-	-	-	TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Di(2-ethylhexyl) phthalate 117-81-7	-	-	-	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	STEL: 5 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
Benzyl butyl phthalate 85-68-7	-	-	-	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
n-Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 1000 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup> TWA: 72 mg/m <sup>3</sup> Ceiling: 140 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 576 mg/m <sup>3</sup> STEL: 160 ppm	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>
Diethyl phthalate 117-84-0	-	TWA: 0.1 ppm TWA: 2 mg/m <sup>3</sup> STEL: 0.3 ppm STEL: 5 mg/m <sup>3</sup>	-	-	-
Dimethyl phthalate 131-11-3	TWA: 5 mg/m <sup>3</sup>	-	-	-	TWA: 5 mg/m <sup>3</sup>
Diethyl phthalate	TWA: 5 mg/m <sup>3</sup>	-	-	-	TWA: 5 mg/m <sup>3</sup>



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

84-66-2					
Dibutyl phthalate 84-74-2	TWA: 5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup>	TWA: 0.58 mg/m <sup>3</sup> TWA: 0.05 ppm STEL: 0.1 ppm STEL: 1.16 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Di(2-ethylhexyl) phthalate 117-81-7	TWA: 5 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup> *	TWA: 5 mg/m <sup>3</sup>
Chemical name	Sweden		Switzerland		United Kingdom
n-Hexane 110-54-3	NGV: 20 ppm NGV: 72 mg/m <sup>3</sup> Bindande KGV: 50 ppm Bindande KGV: 180 mg/m <sup>3</sup>		TWA: 50 ppm TWA: 180 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1440 mg/m <sup>3</sup> Sk*		TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 60 ppm STEL: 216 mg/m <sup>3</sup>
Phthalic acid, bis-nonyl ester 84-76-4	NGV: 3 mg/m <sup>3</sup>		-		TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>
Dioctyl phthalate 117-84-0	NGV: 3 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup>		-		TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>
di-n-pentyl phthalate 131-18-0	NGV: 3 mg/m <sup>3</sup>		-		-
Dimethyl phthalate 131-11-3	NGV: 3 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diisobutyl phthalate 84-69-5	-		-		TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>
Dihexyl phthalate 84-75-3	NGV: 3 mg/m <sup>3</sup>		-		-
Diethyl phthalate 84-66-2	NGV: 3 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Dicyclohexyl phthalate 84-61-7	NGV: 3 mg/m <sup>3</sup>		-		TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>
Dibutyl phthalate 84-74-2	NGV: 3 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup>		TWA: 0.05 ppm TWA: 0.58 mg/m <sup>3</sup> STEL: 0.1 ppm STEL: 1.16 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Di(2-ethylhexyl) phthalate 117-81-7	NGV: 3 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup>		TWA: 2 mg/m <sup>3</sup> H*		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Benzyl butyl phthalate 85-68-7	NGV: 3 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>

### Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
n-Hexane	-	-	-	150 µg/L - blood	-



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

110-54-3				(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	
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
n-Hexane 110-54-3	-	-	- urine (2,5-Hexanedione) - end of shift	5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (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	5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) end of shift)
Di(2-ethylhexyl) phthalate 117-81-7	-	-	-	4 mg/g Creatinine - BLW (for long-term exposures: at the end of the shift after several shifts) urine	-
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
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/g Creatinine - urine (2,5-Hexandion) - end of shift	5 mg/L (urine - 2,5-Hexanedione end of exposure or work shift)	



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

				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 the end of the work shift	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)	-

**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** Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

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

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

**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** 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. 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.

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

## SECTION 9: Physical and chemical properties





# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

## 9.1. Information on basic physical and chemical properties

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

Property	Values	Remarks • Method
Melting point / freezing point	-95 °C	None known
Initial boiling point and boiling range	69 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	8,9 Vol% - 319 g/m <sup>3</sup>	
Lower flammability or explosive limits	1,0 Vol% - 35 g/m <sup>3</sup>	
Flash point	<-20	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 <sup>2</sup> /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

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



# 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 01-Feb-2024

Revision Number 1

**DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane**

---

**Reactivity** No information available.

## 10.2. Chemical stability

**Stability** Stable under normal conditions.

### **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



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

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.

### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	99,999.00 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	99,999.00 mg/l
ATEmix (inhalation-vapour)	99,999.00 mg/l

#### 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
Phthalic acid,bis-butoxyethyl ester	= 8380 mg/kg ( Rat )		
Phthalic acid, bis-nonyl ester	= 2 g/kg ( Rat )		
Phthalic acid, bis-methylglycol ester	= 4.4 g/kg ( Rat )	>20 g/L (guinea pig)	
Phthalic acid, bis-4-methyl-2-pentyl ester	= 15800 mg/kg ( Rat )		
Dioctyl phthalate	= 30000 mg/kg ( Rat )	>5000 mg/Kg (Guinea Pig)	
Dimethyl phthalate	= 6800 mg/kg ( Rat )	>4800 mg/kg (rat)	
Diisobutyl phthalate	= 15 g/kg ( Rat )		
Dihexyl phthalate	= 29600 mg/kg ( Rat )	= 20000 mg/kg ( Rabbit )	
Diethyl phthalate	= 8600 mg/kg ( Rat )	> 11200 mg/kg ( Rat )	> 4.64 mg/L ( Rat ) 6 h
Dicyclohexyl phthalate	= 30 mL/kg ( Rat )		



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Dibutyl phthalate	= 7499 mg/kg ( Rat )	> 20000 mg/kg ( Rabbit )	>= 15.68 mg/L ( Rat ) 4 h
Di(2-ethylhexyl) phthalate	= 30 g/kg ( Rat )	= 25 g/kg ( Rabbit )	> 10620 mg/m <sup>3</sup> ( Rat ) 4 h
Benzyl butyl phthalate	= 2330 mg/kg ( Rat )	= 6700 mg/kg ( Rat )	> 6.7 mg/L ( Rat ) 4 h
Benzyl benzoate	= 500 mg/kg ( Rat )	= 4000 mg/kg ( Rabbit )	

### 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. Causes skin irritation.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**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
Phthalic acid, bis-nonyl ester	Repr. 1B
Phthalic acid, bis-methylglycol ester	Repr. 1B
Phthalic acid, bis-4-methyl-2-pentyl ester	Repr. 1B
Dioctyl phthalate	Repr. 1B
di-n-pentyl phthalate	Repr. 1B
Diisobutyl phthalate	Repr. 1B
Dihexyl phthalate	Repr. 1B
Dicyclohexyl phthalate	Repr. 1B
Dibutyl phthalate	Repr. 1B
Di(2-ethylhexyl) phthalate	Repr. 1B
Benzyl butyl phthalate	Repr. 1B



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

**STOT - single exposure** May cause drowsiness or dizziness.

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

**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** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

**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)	-	-
Phthalic acid, bis-nonyl ester	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: >0.18mg/L (96h, Lepomis macrochirus) LC50: >0.23mg/L (96h, Pimephales promelas) LC50: >0.32mg/L (96h, Danio rerio)	-	EC50: =1mg/L (48h, Daphnia magna) EC50: >1mg/L (48h, Daphnia magna) EC50: >5.8mg/L (48h, Daphnia magna)
Diethyl phthalate	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: >0.18mg/L (96h, Lepomis macrochirus) LC50: >0.23mg/L (96h, Pimephales promelas) LC50: >0.32mg/L (96h, Danio rerio)	-	EC50: >1mg/L (48h, Daphnia magna) EC50: >5.8mg/L (48h, Daphnia magna)



## 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 01-Feb-2024

Revision Number 1

### DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Dimethyl phthalate	EC50: 28.4 - 71mg/L (72h, Pseudokirchneriella subcapitata) EC50: =204mg/L (72h, Desmodesmus subspicatus) EC50: 20.6 - 45.8mg/L (96h, Pseudokirchneriella subcapitata) EC50: =142mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =49.5mg/L (96h, Lepomis macrochirus) LC50: 37 - 69mg/L (96h, Lepomis macrochirus) LC50: =56mg/L (96h, Oncorhynchus mykiss) LC50: =39mg/L (96h, Pimephales promelas) LC50: =121mg/L (96h, Pimephales promelas)	-	EC50: =33mg/L (48h, Daphnia magna)
Diisobutyl phthalate	EC50: =1mg/L (72h, Desmodesmus subspicatus)	LC50: 0.73 - 1.1mg/L (96h, Pimephales promelas)	-	-
Diethyl phthalate	EC50: 2.11 - 4.29mg/L (96h, Pseudokirchneriella subcapitata) EC50: 42 - 255mg/L (72h, Pseudokirchneriella subcapitata) EC50: =21mg/L (96h, Desmodesmus subspicatus) EC50: =23mg/L (72h, Desmodesmus subspicatus)	LC50: =12mg/L (96h, Oncorhynchus mykiss) LC50: =16.7mg/L (96h, Lepomis macrochirus) LC50: =16.8mg/L (96h, Pimephales promelas) LC50: =17mg/L (96h, Pimephales promelas) LC50: =22mg/L (96h, Lepomis macrochirus)	-	EC50: 36 - 74mg/L (48h, Daphnia magna) EC50: =86mg/L (48h, Daphnia magna) EC50: 9mg/l (Daphnia magna, 48h)
Dibutyl phthalate	EC50: =0.4mg/L (96h, Pseudokirchneriella subcapitata) EC50: =1.2mg/L (72h, Desmodesmus subspicatus)	LC50: 0.31 - 5.45mg/L (96h, Pimephales promelas) LC50: 0.42 - 1.28mg/L (96h, Lepomis macrochirus) LC50: 0.71 - 1.2mg/L (96h, Pimephales promelas) LC50: 1.24 - 5.3mg/L (96h, Oncorhynchus mykiss) LC50: 1.38 - 1.74mg/L (96h, Lepomis macrochirus) LC50: >1.24mg/L (96h, Oncorhynchus mykiss)	-	EC50: =2.99mg/L (48h, Daphnia magna) EC50: =3.4mg/L (48h, Daphnia magna)
Di(2-ethylhexyl) phthalate	EC50: >0.1mg/L (96h, Pseudokirchneriella)	LC50: 0.27 - 0.67mg/L (96h, Pimephales)	-	EC50: >0.16mg/L (48h, Daphnia magna)



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

	subcapitata) EC50: >130mg/L (72h, Desmodesmus subspicatus) EC50: >500mg/L (72h, Desmodesmus subspicatus)	promelas) LC50: >0.16mg/L (96h, Pimephales promelas) LC50: >0.18mg/L (96h, Lepomis macrochirus) LC50: >0.200mg/L (96h, Lepomis macrochirus) LC50: >0.23mg/L (96h, Pimephales promelas) LC50: >0.32mg/L (96h, Brachydanio rerio) LC50: >0.32mg/L (96h, Oncorhynchus mykiss) LC50: >0.32mg/L (96h, Oryzias latipes) LC50: >0.32mg/L (96h, Poecilia reticulata) LC50: >0.67mg/L (96h, Oryzias latipes) LC50: >100mg/L (96h, Oncorhynchus mykiss)		LC50: =9.4mg/L (48h, Daphnia magna)
Benzyl butyl phthalate	EC50: 0.02 - 0.25mg/L (96h, Pseudokirchneriella subcapitata) EC50: 0.2 - 28.2mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 1.0 - 10.0mg/L (96h, Lepomis macrochirus) LC50: 1.0 - 10.0mg/L (96h, Oncorhynchus mykiss) LC50: 1.39 - 3.88mg/L (96h, Pimephales promelas) LC50: =0.82mg/L (96h, Oncorhynchus mykiss) LC50: >0.78mg/L (96h, Pimephales promelas)	-	EC50: 0.9 - 1.1mg/L (48h, Daphnia magna) EC50: >0.76mg/L (48h, Daphnia magna) EC50: =1.28mg/L (48h, Daphnia magna) EC50: =0.97mg/L (48h, Daphnia magna)
Benzyl benzoate	-	LC50: =2.32mg/L (96h, Danio rerio)	-	EC50: 3.09 mg/L (48h, Daphnia magna)

## 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



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Chemical name	Partition coefficient
n-Hexane	3.9
Phthalic acid,bis-butoxyethyl ester	4.4
Phthalic acid, bis-2-ethoxyethyl ester	1.412
Dioctyl phthalate	9.2
di-n-pentyl phthalate	5.62
Dimethyl phthalate	1.6
Diisobutyl phthalate	4.11
Dihexyl phthalate	5.8
Diethyl phthalate	2.47
Dibutyl phthalate	4.72
Di(2-ethylhexyl) phthalate	7.5
Benzyl butyl phthalate	4.84
Benzyl benzoate	3.97

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
n-Hexane	The substance is not PBT / vPvB
Dimethyl phthalate	The substance is not PBT / vPvB
Diisobutyl phthalate	The substance is not PBT / vPvB
Diethyl phthalate	The substance is not PBT / vPvB
Dicyclohexyl phthalate	The substance is not PBT / vPvB
Dibutyl phthalate	The substance is not PBT / vPvB
Di(2-ethylhexyl) phthalate	The substance is not PBT / vPvB
Benzyl butyl phthalate	The substance is not PBT / vPvB
Benzyl benzoate	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.





# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

## 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 (n-Hexane), 3, II, (0°C c.c.), Marine pollutant
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



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

## 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

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
n-Hexane	-	-	Fertility Category 2
Phthalic acid, bis-nonyl ester	-	-	Fertility Category 1B Development Category 1B
Phthalic acid, bis-methylglycol ester	-	-	Development Category 1B Fertility Category 2
Phthalic acid, bis-4-methyl-2-pentyl ester	-	-	Fertility Category 1B Development Category 2
Dioctyl phthalate	-	-	Fertility Category 2 Development Category 1B



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
di-n-pentyl phthalate	-	-	Fertility Category 1B Development Category 1B
Diisobutyl phthalate	-	-	Development Category 1B Fertility Category 2
Dihexyl phthalate	-	-	Development Category 1B Fertility Category 1B
Dicyclohexyl phthalate	-	-	Development Category 1B
Dibutyl phthalate	-	-	Fertility Category 2 Development Category 1B
Di(2-ethylhexyl) phthalate	-	-	Fertility Category 1B Development Category 1B
Benzyl butyl phthalate	-	-	Fertility Category 2 Development Category 1B

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

### 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 contains one or more substance(s) subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product contains one or more substance(s) 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

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
n-Hexane - 110-54-3	75.	
Phthalic acid, bis-methylglycol ester - 117-82-8	72. 30.	X
Diethyl phthalate - 117-84-0	52[c].	
di-n-pentyl phthalate - 131-18-0	72. 30.	X
Diisobutyl phthalate - 84-69-5	30. 75. 51[d].	7.
Dihexyl phthalate - 84-75-3	72. 30. 75.	45.
Dicyclohexyl phthalate - 84-61-7	30.	
Dibutyl phthalate - 84-74-2	30. 51[b]. 75.	6.
Di(2-ethylhexyl) phthalate - 117-81-7	30. 51[a]. 75.	X
Benzyl butyl phthalate - 85-68-7	30. 51[c]. 75.	X

### Persistent Organic Pollutants

Not applicable

### Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
---------------	--



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Diisobutyl phthalate - 84-69-5	I.1 I.2
Benzyl butyl phthalate - 85-68-7	I.1 I.2

### 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

### EU - Water Framework Directive (2000/60/EC)

Chemical name	EU - Water Framework Directive (2000/60/EC)
Di(2-ethylhexyl) phthalate - 117-81-7	Priority hazardous substance

### EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Di(2-ethylhexyl) phthalate - 117-81-7	Priority substance

### International Inventories

#### TSCA

Complies under research and development exemption or is regulated by a different government agency.

#### DSL/NDSL

Contact supplier for inventory compliance status

#### EINECS/ELINCS

Contact supplier for inventory compliance status

#### ENCS

Contact supplier for inventory compliance status

#### IECSC

Contact supplier for inventory compliance status

#### KECL

Contact supplier for inventory compliance status

#### PICCS

Contact supplier for inventory compliance status

#### AIIC

Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - 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

**AIIC** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment



# 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 01-Feb-2024

Revision Number 1

DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

## Chemical Safety Report

A Chemical Safety Assessment is not required 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  
H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H360D - May damage the unborn child  
H360Df - May damage the unborn child. Suspected of damaging fertility  
H360FD - May damage fertility. May damage the unborn child  
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  
H412 - Harmful to aquatic life with long lasting effects  
H413 - May cause long lasting harmful effects to aquatic life

#### 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	Sk*	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



# 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 01-Feb-2024

Revision Number 1

## DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane

Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	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 01-Feb-2024

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or



# 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 01-Feb-2024

Revision Number 1

**DRE-YA08060300HE - Phthalate Esters - Analytes Mix 3 1000 µg/mL in n-Hexane**

---

representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**