according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032 Version: 3.1 en Replaces version of: 2021-05-18 Version: (3)

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

1.1 Product identifier

> Identification of the substance Article number

Registration number (REACH)

Index number in CLP Annex VI

EC number

CAS number

Alternative name(s)

Hexane (isomers)

HX9032

01-2119474209-33-xxxx

925-292-5

64742-49-0

Hydrocarbons, C₆, n-alkanes, iso-alkanes, cyclics, 5-60% n-hexane

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

Relevant identified uses:

Uses advised against:

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Laboratoriumdiscounter Zandvoortstraat 75 1976BN limuiden Nederland

Telephone:+31 (0) 255 700 210 e-mail: info@laboratoriumdiscounter.nl Website: www.laboratoriumdiscounter.nl

Competent person responsible for the safety data sheet:

e-mail (competent person):

:Department Health, Safety and Environment

info@laboratoriumdiscounter.nl

1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	



date of compilation: 2018-10-31

Revision: 2021-05-18



Laboratory chemical

Laboratory and analytical use

649-328-00-1

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032

Laboratoriumdiscounter

SECTION 2: Hazards identification

2.1 Classification of the substance ormixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.7	Reproductive toxicity	2	Repr. 2	H361fd
3.8D	Specific target organ toxicity-single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word

Danger

Pictograms

GHS02, GHS07, GHS08, GHS09



Hazard statements

H225 H304	Highly flammable liquid and vapour May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	Maycause drowsiness or dizziness
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if in- haled)
H373	May cause damage to organs (nervous system) through prolonged or re- peated exposure
H411	Toxic to aquatic life with long lasting effects

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Precautionary statements

Precautionary statements - prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
P243	sources. No smoking Take action to prevent static discharges
P273	Avoid release to the environment

Precautionary statements - response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P331	Do NOT induce vomiting

Precautionary statements - storage

P403+P235	Store in a well-ventilated p	lace Keen cool
r403+r233	Store in a weil-ventilateur	nace. Reep cool

For professional users only

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H304	May be fatal if swallowed and enters airways.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if inhaled).
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT inducevomiting.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical identity of the main constituent

"UVCB substance" (substance of unknown or variable composition).

Name of substance	Hydrocarbons, C₅, n-alkanes, iso-alkanes, cyclics, 5-60% n-hexane
Molecular formula	C6H14
Molar mass	86,18 ^g / _{mol}
REACH Reg. No	01-2119474209-33-xxxx
CAS No	64742-49-0
EC No	925-292-5
Index No	649-328-00-1

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
n-Hexane	CAS No 110-54-3 EC No 203-777- 6 Index No <u>601-037-00-</u>	≤55	Flam.Liq.2/H225 SkinIrrit.2/H315 Repr.2/H361f STOTSE3/H336 STOTRE2/H373 Asp. Tox.1/H304 AquaticChronic2/H411	

For full text of abbreviations: see SECTION 96

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Observe aspiration hazard if vomiting occurs.

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

Irritation, Cough, Vertigo, Dyspnoea, Aspiration hazard, Loss of righting reflex, and ataxia, Dizziness, Drowsiness, Narcosis

3. Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Unsuitable extinguishing media

water jet

2. Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION6: Accidental releasemeasures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

2. Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. Danger of explosion.

3. Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation. Avoid exposure.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ground/bond container and receiving equipment.

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Co u ntr y	Name of agent	CAS No	ldenti- fier	T W A [pp m]	TWA [mg/ m³]	ST E [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	n-hexane	110-54-3	IOELV	20	72						2006/1 5/ EC
GB	n-hexane	110-54-3	WEL	20	72						EH40 / 2005
Ceiling- STEL								curand	which is r	elated to a	

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs and other threshold levels								
EndpointThreshold levelProtection goal, route of exposureUsed inExpo								
DNEL	93 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects				
DNEL	13 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects				

Relevant DNELs of components of the mixture

	•					
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
n-Hexane	110-54-3	DNEL	75 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
n-Hexane	110-54-3	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22°C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR: acrylonitrile-butadiene rubber

material thickness

0,4 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 $^{\circ}$ C, colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physicaland chemical properties

Physical state	liquid
Colour	clear - colourless
Odour	mild sweet
Melting point/freezing point	-95 °C
Boiling point or initial boiling point and boiling range	65 – 70 °C at 100 kPa (ECHA)
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	1,2 vol% - 7,3 vol%
Flash point	-26 °C at 1 atm
Auto-ignition temperature	300 °C at 1 atm (ECHA)
Decomposition temperature	not relevant
pH (value)	not determined

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



	1 1
Kinematicviscosity	0,474 ^{mm²} /s at 20°C
<u>Solubility(ies)</u>	
Water solubility	0,01 ^g / _l at 25 °C (ECHA)
Partition coefficient	
Partition coefficient n-octanol/water (log value):	4
Soil organic carbon/water (log KOC)	3,34 (ECHA)
Vapour pressure	47 kPa at 25 °C
Density	0,668 ^g / _{cm³} at 15°C
Relative vapour density	2,8 (air =1)
Particlecharacteristics	not relevant(liquid)
<u>Other safety parameters</u>	
Oxidising properties	none
Other information	
Information with regard to physical hazard classes:	There is no additional information.
Other safety characteristics:	
Refractive index	≥1,377
Temperature class (EU, acc. to ATEX)	T3 Maximum permissible surface temperature on the equipment: 200°C

SECTION 10: Stability and reactivity

1. Reactivity

9.2

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

If heated

Risk of ignition.

2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

3. Possibility of hazardous reactions

Violent reaction with: strong oxidiser

4. Conditions to avoid

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

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032

- 5. Incompatible materials Rubber articles, different plastics
- 6. Hazardous decomposition products Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
n-Hexane	110-54-3	inhalation: va- pour	LC50	176 ^{mg} / _l /4h	rat
n-Hexane	110-54-3	oral	LD50	25.000 ^{mg} /kg	rat
n-Hexane	110-54-3	dermal	LD50	>2.000 ^{mg} /kg	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child (if inhaled). Suspected of damaging fertility (if inhaled).

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	nervous system	if exposed

Aspiration hazard

May be fatal if swallowed and enters airways.



according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

aspiration hazard

• If in eyes

slightly irritant but not relevant for classification

If inhaled

vertigo, headache, cough, Dyspnoea, fatigue, narcosis

• If on skin

has degreasing effect on the skin, causes skin irritation, risk of absorption via the skin

Other information

Other adverse effects: Loss of righting reflex, and ataxia

2. Endocrine disrupting properties

Not listed.

3. Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture							
Name of sub- stance CAS No Endpoint Value Species Exposure time							
n-Hexane	110-54-3	LL50	12,51 ^{mg} /I	fish	96 h		
n-Hexane	110-54-3	EL50	21,85 ^{mg} /I	aquatic invertebrates	48 h		

Biodegradation

The substance is readily biodegradable.

12.2 Process of degradability

Theoretical Oxygen Demand: 3,527 ^{mg}/mg Theoretical Carbon Dioxide: 3,064 ^{mg}/mg

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
n-Hexane	110-54-3	oxygen deple- tion	83 %	10 d		ECHA

12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

n-octanol/water (log KOW)		4				
BCF		501,2 (ECHA)				
Bioaccumulative potential of components of the mixture						
Name of substance	ВС	CF		Log KOW	BOD5/COD	
n-Hexane	110-54-3	501	1,2	4 (pl	H value: 7, 20 °C)	

12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient	3,34 (ECHA)
--	-------------

5. Results of PBT and vPvB assessment

Data are not available.

6. Endocrine disrupting properties Not listed.

7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

2. Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

3. Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 14: Transport information

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

1.		
1.	UN number or IDnumber	
	ADR/RID/ADN	UN 1208
	IMDG-Code	UN 1208
	ICAO-TI	UN 1208
2.	UN proper shipping name	
	ADR/RID/ADN	HEXANES
	IMDG-Code	HEXANES
	ICAO-TI	Hexanes
3.	Transport hazard class(es)	
	ADR/RID/ADN	3
	IMDG-Code	3
	ICAO-TI	3
4.	Packing group	
	ADR/RID/ADN	Ш
	IMDG-Code	II
	ICAO-TI	II
5.	Environmental hazards	hazardous to the aquatic environment

5. **Environmental hazards**

6. Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

Maritime transport in bulk according to IMO instruments 7.

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

HEXANES
UN1208, HEXANES, 3, II, (D/E), environmentally hazardous
F1
3, "Fish andtree"
Yes (hazardous to the aquatic environment)
E2
1L
2

according to Regulation (EC) No. 1907/2006 (REACH)	ియ
Hexane (isomers)	Laboratoriumdiscounter
article number: HX9032	٢ (
Tunnel restriction code (TRC)	D/E
Hazard identification No	33
Emergency Action Code	ЗҮЕ
International Maritime Dangerous Goods C	Code (IMDG) - Additional information
Proper shipping name	HEXANES
Particulars in the shipper's declaration	UN1208, HEXANES, 3, II, -26°C c.c., MARINE POL- LUTANT
Marine pollutant	yes (P) (hazardous to the aquatic environment)
Danger label(s)	3, "Fish and tree"
Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-D
Stowage category	E
International Civil Aviation Organization (IC	CAO-IATA/DGR) - Additional information
Proper shipping name	Hexanes
Particulars in the shipper's declaration	UN1208, Hexanes, 3, II
Environmental hazards	Yes (hazardous to the aquatic environment)
Danger label(s)	3
٠	
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name of substance	Name acc. to inventory	CAS No	Restriction	No
Hydrocarbons, C₀, n-alkanes, iso-al- kanes, cyclics, 5-60% n-hexane	this product meets the criteria for classificationin accordancewithReg- ulation No1272/2008/EC		R3	3
Hydrocarbons, C₅, n-alkanes, iso-al- kanes, cyclics, 5-60% n-hexane	flammable / pyrophoric		R40	40

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Hydrocarbons, C6, n-alkanes, iso-al- kanes, cyclics, 5-60% n-hexane	substances in tattoo inks and perman- ent make-up		R75	75

Legend R3

R40

1. Shall not be used in:

-ornamental articles intended to produce light or colour effects by means of different phases, for example in orna-

mental lamps and ashtrays,
 tricks and jokes,
 games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and — can be used as fuel in decorative oil lamps for supply to the general public, and

present an aspiration hazard and are labelled with H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5.Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met

(a) lampoils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as - or even sucking the wick of lamps – may lead to life-threatening lung damage";

(b)grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage'; (c)lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: - metallic glitter intended mainly for decoration, - artificial snow and frost,

- 'whoopee' cushions,

- silly string aerosols

imitation excrement,
horns for parties,
decorative flakes and foams,

- artificial cobwebs,

stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred

to above is marked visibly, legibly and indelibly with: 'For professional users only'. 3.By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC(2). 4.The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the market unless they conform to

the requirements indicated.

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Legend R75

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub-stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:

(d)in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat-egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than: (i) 0,1% by weight, if the substance is used solely as a pH regulator;

(ii) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g

(Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the (i) "Rinse-off products";

(ii) "Not to be used in products applied on mucous membranes";

(iii) "Not to be used in eye products

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h)in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen-tration equal to or greater than the concentration limit specified for that substance in that Appendix. 2.For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mix-ture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures com-monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of

making a mark or design on his or her body. 3.If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest

concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

paragraph 1 shall apply to that substance. 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Blue 15:3 (Cl 74160, EC No 205-685-1, CAS No 147-14-8); (b) Pigment Green 7 (Cl 74260, EC No 215-524-7, CAS No 1328-53-6). 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub-stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of ap-plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the

such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the

 7. Suppliers placing a mixture on the market for use for fattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:

 (a) the statement "Mixture for use in tattoos or permanent make-up";
 (b) a reference number to uniquely identify the batch;
 (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient shall be listed in description of the ingredient shall be listed in the glossary of the ingredient shall be listed in the glossary of a common ingredient shall be listed in the glossary of a common ingredient name or IUPAC name.

 be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra-

tion limit specified in Appendix 13;

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point

(a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for

tattooing purposes.

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or accessory to a medical device or accessory to a medical device or accessory to a

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		
E2	environmental hazards (hazardous to the aquatic en- vironment, cat. 2)	200 500	57)	

Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

Deco-Paint Directive

VOC content	100 <i>%</i> 668 ⁹ /I
-------------	-------------------------------------

Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	668 ^g /l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Hydrocarbons,C₀,n-alkanes,iso- alkanes,cyclics, 5-60%n-hexane	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which mayaffectsteroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		A)	

Legend A)

Indicative list of the main pollutants

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National inventories

Country	Inventory	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
KR	KECI	substance is listed
МХ	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
DSL	Domestic Substances List(DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
	National Inventory of Chemical Substances
	Korea Existing Chemicals Inventory
	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		ClassificationaccordingtoRegulation(EC)No 1272/2008(CLP): change in the listing (table)	yes
2.1	Supplemental hazard information		yes
2.1		Supplemental hazard information: change in the listing (table)	yes
2.1	Themostimportantadversephysicochemical, human health and environmental effects: Narcotic effects.	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution ofwatercourses.	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2	Supplemental hazard information		yes
2.2		Supplemental hazard information: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125ml: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limitvalues in imple- mentation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Abbr.	Descriptions of used abbreviations	
Asp. Tox.	Aspiration hazard	
BCF	Bioconcentration factor	
BOD	Biochemical Oxygen Demand	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substance	
Ceiling-C	Ceiling value	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
COD	Chemical oxygen demand	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)	
EH40/2005	EH40/2005 Workplace exposure limits <u>(http://www.nationalarchives.gov.uk/doc/open-government-li</u> cence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the testorganisms	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
Flam. Liq.	Flammable liquid	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
IOELV	Indicative occupational exposure limit value	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50%: the LD50 corresponds to the dose of a tested substance causing 50% lethality during a specified time interval	
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality	
log KOW	n-Octanol/water	
NLP	No-Longer Polymer	
РВТ	Persistent, Bioaccumulative and Toxic	
ppm	Parts per million	

according to Regulation (EC) No. 1907/2006 (REACH)

Hexane (isomers)

article number: HX9032



Laboratoriumdiscounter

Abbr.	Descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Regulation (EC) No1272/2008 onclassification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
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.
H361f	Suspected of damaging fertility (if inhaled).
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if inhaled).
H373	May cause damage to organs (nervous system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.