

Safety data sheet according to 1907/2006/EC, Article 31

Page 1/10

Printing date 01.07.2021

Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

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

· 1.1 Product identifier

· Trade name: n-hexane

· Article number: 3242

· CAS Number: 110-54-3 · EC number:

203-777-6 • **Index number:** 601-037-00-0

- · Application of the substance / the mixture Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès (Barcelona)

Tel. (+34) 937 489 400 Fax. (+34) 937 489 401

e-mail: product.safety@panreac.com

· Further information obtainable from: email: product.safety@panreac.com

1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Repr. 2 H361f Suspected of damaging fertility.
STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Page 2/10

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 1)

· Hazard pictograms









GHS02 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361f Suspected of damaging fertility.

H336 May cause drowsiness or dizziness.

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

H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

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

protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Specific treatment (see on this label). P321

Do NOT induce vomiting. P331

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description

110-54-3 n-hexane

· Identification number(s)

· EC number: 203-777-6

· Index number: 601-037-00-0

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Involve doctor immediately.

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

· After swallowing: Call a doctor immediately.

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

No further relevant information available.

(Contd. on page 3)

Page 3/10

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 2)

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Forms explosive mixtures with air at ambient temperatures.

Vapours ara heavier than air and may spread along floors.

Beware of backfiring.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Avoid substance contact.

Do not inhale steams/aerosols.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Clean up affected area.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

(Contd. on page 4)

Page 4/10

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 3)

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Away from sources of ignition and heat.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Open receptacle only under localised extractor facilities.

Store receptacle in a well ventilated area.

Store only outside or in explosion proof rooms.

Store under lock and key and with access restricted to technical experts or their assistants only.

- · Recommended storage temperature: Room Temperature
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

110-54-3 n-hexane

WEL Long-term value: 72 mg/m³, 20 ppm

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Recommended thickness of the material: \geq 0.11 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Page 5/10

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

· Eye/face protection

(Contd. of page 4)



Tightly sealed goggles

· Body protection:

Use protective suit.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Fluid
Colourless
Characteristic
Not determined.

• Melting point/freezing point: -95 °C

· Boiling point or initial boiling point and boiling

range 69 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: 1.2 Vol %
 Upper: 7.4 Vol %
 Flash point: -26 °C

Auto-ignition temperature:
 Decomposition temperature:
 pH
 Not determined.
 Not determined.
 Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

• water at 20 °C: 0.1 g/l

Partition coefficient n-octanol/water (log value) Not determined.

• Vapour pressure at 20 °C: 160 hPa

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid · Important information on protection of health

and environment, and on safety.

Ignition temperature: 240 °C

• Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

· VOC (EC) 100 %

· Change in condition

Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void

(Contd. on page 6)

Page 6/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

	(Contd. of page
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

		9	•		
· Compo	nents	Туре	Value	Species	
Oral	LD50	25,000 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (rabbit)			

· Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · After inhalation: Irritant to skin and mucous membranes.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity

Suspected of damaging fertility.

· 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.

(Contd. on page 7)

Page 7/10

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 6)

- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN1208

· 14.2 UN proper shipping name

· ADR HEXANES, ENVIRONMENTALLY HAZARDOUS

· IMDG HEXANES. MARINE POLLUTANT

· IATA HEXANES

- · 14.3 Transport hazard class(es)
- · ADR



· Class 3 (F1) Flammable liquids.

(Contd. on page 8)

Page 8/10

Printing date 01.07.2021

Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 7) 3 · Label ·IMDG · Class 3 Flammable liquids. · Label ·IATA · Class 3 Flammable liquids. · Label · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Environmentally hazardous substance, liquid; Marine Pollutant · Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Flammable liquids. Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D Stowage Category Ε · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category 2 Tunnel restriction code D/E · IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 1208 HEXANES, 3, II, ENVIRONMENTALLY **HAZARDOUS**

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.

(Contd. on page 9)

Page 9/10

Printing date 01.07.2021 Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 8)

Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* Data compared to the previous version altered.

Annex: Exposure scenario

- Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures
- · Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure Use only on hard ground.
- · Other operational conditions affecting worker exposure

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- Other operational conditions affecting consumer exposure Keep out of the reach of children.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.

(Contd. on page 10)

Safety data sheet according to 1907/2006/EC, Article 31

Page 10/10 Printing date 01.07.2021

Revision: 01.07.2021

Version number 8.02 (replaces version 8.01)

Trade name: n-hexane

(Contd. of page 9)

· Technical protective measures

Provide explosion-proof electrical equipment.

Use product only in enclosed systems.

Ensure that suitable extractors are available on processing machines

· Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

- Water Do not allow to reach sewage system.
- · Soil Prevent contamination of soil.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

- GB