according to Regulation (EC) No. 1907/2006



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

#### 1.1 Product identifier

Trade name : RENLEASE® QZ 5111

Unique Formula Identifier

(UFI)

: A02A-E0TQ-M00R-P2GS

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

Use of the : Use in binder and release agents

Substance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe) BV

Address : Everslaan 45

3078 Everberg

Belgium

Telephone : +41 61 299 20 41 Telefax : +41 61 299 20 40

E-mail address of person

responsible for the SDS

: Global\_Product\_EHS\_AdMat@huntsman.com

## 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:

BORDEAUX: 05 56 96 40 80 LILLE: 0 825 812 822 LYON: 04 72 11 69 11 MARSEILLE 04 91 75 25 25 NANCY: 03 83 32 36 36 PARIS: 01 40 05 48 48 RENNES: 02 99 59 22 22

ANGERS: 02 41 48 21 21

RENNES: 02 99 59 22 22 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47 EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090

India: + 91 22 42 87 5333 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1 800-424-9300

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#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters

airways.

Long-term (chronic) aquatic hazard,

Category 2

H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









Signal word : Danger

Hazard statements : 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.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P273 Avoid release to the environment.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

P391 Collect spillage.

# Hazardous components which must be listed on the label:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha methylcyclohexane

n-octane

hexane (containing < 5 % n-hexane (203-777-6))

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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

# **Hazardous components**

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	CAS-No. EC-No. Index-No. Registration number 64742-49-0 265-151-9 649-328-00-1 01-2119475133-43	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304	Concent ration (% w/w) >= 70 - < 90
		Aquatic Chronic 2; H411	
methylcyclohexane	108-87-2 203-624-3 601-018-00-7 01-2119556887-18	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 2,5 - < 10
		M-Factor (Acute aquatic toxicity): 1	
n-octane	111-65-9 203-892-1 601-009-00-8 01-2119463939-19	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
		M-Factor (Acute aquatic toxicity): 1	

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		M-Factor (Chronic aquatic toxicity): 1	
cyclohexane	110-82-7 203-806-2 601-017-00-1 01-2119463273-41	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
hexane (containing < 5 % n-hexane (203-777-6))	107-83-5 203-523-4 601-007-00-7 01-2120768140-61	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Treat symptomatically.

Get medical attention if symptoms occur.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

No action shall be taken involving any personal risk or without

suitable training.

If inhaled : Consult a physician after significant exposure.

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

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In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

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

None known.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

No hazardous combustion products are known

## 5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

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#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

#### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharges. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

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Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers

: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

Advice on common storage

: For incompatible materials please refer to Section 10 of this

SDS.

Recommended storage

temperature

: 2 - 40 °C

Further information on

storage stability

Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

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

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
methylcyclohexane	108-87-2	VME	400 ppm 1 600 mg/m3	FR VLE
Further information	Indicative exp	osure limits		
n-octane	111-65-9	VME	300 ppm 1 450 mg/m3	FR VLE
Further information	Indicative exp	osure limits		
cyclohexane	110-82-7	TWA	200 ppm 700 mg/m3	2006/15/EC
Further information	Indicative	Indicative		
		VME	200 ppm 700 mg/m3	FR VLE
Further information	Regulatory binding exposure limits			
		VLCT (VLE)	375 ppm 1 300 mg/m3	FR VLE
Further information	Indicative exposure limits			
hexane (containing < 5 % n-hexane (203-777-6))	107-83-5	VME (Vapour)	1 000 mg/m3	FR VLE
Further information	Indicative exposure limits			
		VLCT (VLE) (Vapour)	1 500 mg/m3	FR VLE
Further information	ation Indicative exposure limits			

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		VME	500 ppm 1 800 mg/m3	F	R VLE
Further information	Indicative exposure limits				

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
methylcyclohexane	Workers	Inhalation	Long-term systemic effects	64,3 mg/m3
	Workers	Inhalation	Acute systemic effects	1354,6 mg/m3
	Workers	Dermal	Long-term systemic effects	1,7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	16 mg/m3
	Consumers	Inhalation	Acute systemic effects	1016 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,8 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,4 mg/kg bw/day

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Environmental Compartment Value		
methylcyclohexane	Fresh water	1,34 μg/l		
	Marine water	0,134 μg/l		
	Freshwater - intermittent	13,4 μg/l		
	Fresh water sediment	0,036 mg/kg dry		
		weight (d.w.)		
	Marine sediment	0,003 mg/kg dry		
		weight (d.w.)		
	Sewage treatment plant	273 μg/l		
	Soil	0,01 mg/kg dry		
		weight (d.w.)		

#### 8.2 Exposure controls

## Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Material : butyl-rubber

Material : Nitrile rubber Break through time : 10 - 480 min

Material : Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time : > 8 h

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be

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discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Equipment should conform to EN 14387

Filter type : Organic vapour type (A)

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state : Emulsion

Colour : colourless

Odour : solvent-like

Odour Threshold : No data is available on the product itself.

pH : substance/mixture is non-soluble (in water)

Melting point/freezing point : No data available

Boiling point : 84 °C

Flash point : -8,99 °C

Method: Pensky-Martens closed cup

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: 7,7 %(V)

Lower explosion limit / Lower

flammability limit

: 0,6 %(V)

Vapour pressure : ca. 290 hPa (50 °C)

Relative vapour density : No data is available on the product itself.

Relative density : ca. 0,71 (20 °C)

Density : ca. 0,71 g/cm3 (20 °C)

Method: DIN 53217

Solubility(ies)

Water solubility : practically insoluble (20 °C)

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Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : 250 °C

Decomposition temperature : No data is available on the product itself.

Viscosity

Viscosity, dynamic : ca. 30 mPa.s

Method: ISO 3219

Viscosity, kinematic : 7 - 20 mm2/s (40 °C)

Flow time : 26 s

Cross section: 4 mm Method: DIN 53211

9.2 Other information

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Burning rate : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Molecular weight : No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong oxidizing agents

## 10.6 Hazardous decomposition products

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Hazardous decomposition

products

: carbon monoxide carbon dioxide hydrocarbons

#### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

#### Components:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 7 630 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2 000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

methylcyclohexane:

Acute oral toxicity : LD50 (Rabbit): 4 000 - 4 500 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 26,3 mg/l

Exposure time: 1 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2 000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

n-octane:

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 24,88 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2 000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

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toxicity

cyclohexane:

Acute oral toxicity : LD50 (Rat): 5 500 - 6 000 mg/kg

LD50 (Rat): 12 705 mg/kg

Method: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 19 070 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute

inhalation toxicity

#### Skin corrosion/irritation

# **Components:**

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

methylcyclohexane:

Species : Rabbit
Result : Skin irritation

n-octane:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

cyclohexane:

Result : Skin irritation

hexane (containing < 5 % n-hexane (203-777-6)):

Species : Human

Assessment : Irritating to skin.
Result : Skin irritation

#### Serious eye damage/eye irritation

#### Components:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

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methylcyclohexane:

Species Rabbit

Method **OECD Test Guideline 405** 

Result No eye irritation

n-octane:

Rabbit **Species** 

**OECD Test Guideline 405** Method

Result No eye irritation

#### Respiratory or skin sensitisation

#### Components:

#### Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Exposure routes Skin contact Species Guinea pig

Method **OECD Test Guideline 406** 

Result Does not cause skin sensitisation.

methylcyclohexane:

Exposure routes Skin **Species** Guinea pig

Method OECD Test Guideline 406

Result Does not cause skin sensitisation.

n-octane:

Test Type **Maximisation Test** 

Exposure routes Dermal Species Guinea pig

Method **OECD Test Guideline 406** 

Result Does not cause skin sensitisation.

hexane (containing < 5 % n-hexane (203-777-6)):

Test Type **Maximisation Test** 

Species Guinea pig

Assessment Did not cause sensitisation on laboratory animals.

Method **OECD Test Guideline 406** 

Result Did not cause sensitisation on laboratory animals.

Remarks Information given is based on data obtained from similar

substances.

# Germ cell mutagenicity

## Components:

#### Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Genotoxicity in vitro Test Type: Ames test

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

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Genotoxicity in vivo : Test Type: Micronucleus test

Application Route: Inhalation

Result: negative

Test Type: In vivo micronucleus test

Species: Rat

Application Route: Intraperitoneal injection

Result: negative

methylcyclohexane:

Genotoxicity in vitro : Concentration: 8 - 100 μg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Concentration: 61.3 - 980 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

n-octane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: human lymphoblastoid cells

Concentration: 5% v/v

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: rat hepatocytes Concentration: 2.5, 5, 10µg/ml Method: OECD Test Guideline 473

Result: negative

Test Type: Ames test

Test system: Salmonella tryphimurium and E. coli

Concentration: 250µg/ml

Metabolic activation: with and without metabolic activation

Method: No information available.

Result: negative

hexane (containing < 5 % n-hexane (203-777-6)):

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

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#### Carcinogenicity

#### **Components:**

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Species : Mouse, male
Application Route : Dermal
Result : negative

#### Reproductive toxicity

#### Components:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Application Route: inhalation (vapour)

General Toxicity - Parent: NOAEL: >= 20 000 mg/m³ General Toxicity F1: NOAEL: >= 20 000 mg/m³

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Effects on foetal : Species: Rat

development Application Route: inhalation (vapour)

General Toxicity Maternal: NOAEL: 23 900 mg/m<sup>3</sup>

Teratogenicity: NOAEL: 23 900 mg/m3

Result: No adverse effects

methylcyclohexane:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: 250 milligram per kilogram Method: OECD Test Guideline 422

Result: negative

Species: Rat, male and female Application Route: Inhalation

Dose: 2020 mg/m<sup>3</sup>

Method: OECD Test Guideline 416

Result: negative

Effects on foetal : Species: Rabbit

development Application Route: Inhalation

General Toxicity Maternal: NOAEL: 28 100 mg/m<sup>3</sup>

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Inhalation

General Toxicity Maternal: NOAEL: 1 720 mg/m<sup>3</sup>

Method: OECD Test Guideline 414 Result: No teratogenic effects

#### n-octane:

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Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Application Route: inhalation (vapour) Dose: 0,900,3000,9000 parts per million Duration of Single Treatment: 6 h Frequency of Treatment: 5 days/week

General Toxicity - Parent: NOAEL: 31 680 mg/m<sup>3</sup> General Toxicity F1: NOAEL: 10 560 mg/m<sup>3</sup>

Method: OECD Test Guideline 416

Result: negative

Effects on foetal : Test Type: Embryo-foetal development

development Species: Rabbit

Application Route: inhalation (vapour) Dose: 0, 500, 2000, 7000 ppm Duration of Single Treatment: 12 d

General Toxicity Maternal: NOAEC: > 7 000 ppm Developmental Toxicity: NOAEC: > 7 000 ppm

Method: OECD Test Guideline 414 Result: No teratogenic effects

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour) Dose: 0, 900, 3000, 9000 ppm Duration of Single Treatment: 9 d

General Toxicity Maternal: NOAEL: 10 560 mg/m<sup>3</sup> Developmental Toxicity: NOAEL: 31 680 mg/m<sup>3</sup>

Method: OECD Test Guideline 414 Result: No teratogenic effects

#### STOT - single exposure

#### Components:

#### Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Exposure routes : inhalation (vapour)
Target Organs : Narcotic effects

Assessment : May cause drowsiness or dizziness.

methylcyclohexane:

Exposure routes : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause drowsiness or dizziness.

n-octane:

Exposure routes : inhalation (vapour)
Target Organs : Central nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with narcotic effects.

cyclohexane:

Exposure routes : Inhalation

according to Regulation (EC) No. 1907/2006



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Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

#### hexane (containing < 5 % n-hexane (203-777-6)):

Exposure routes : Ingestion Target Organs : Brain

Assessment : May cause drowsiness or dizziness.

Exposure routes : Inhalation Target Organs : Brain

Assessment : May cause drowsiness or dizziness.

## STOT - repeated exposure

No data available

#### Repeated dose toxicity

#### **Components:**

#### Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Species : Rat

NOEL : < 500 mg/kg bw/d

Application Route : Oral

Method : No information available.

Species : Rat

NOEL : > 2000 mg/kg bw/d

Application Route : Dermal

Method : No information available.

# methylcyclohexane:

Species : Rat, male and female

NOAEL : 100 mg/kg Application Route : Ingestion Exposure time : 28 d

Dose : 100, 300, 1000 mg/kg bw/day Method : OECD Test Guideline 407

Species : Rat, male and female

NOAEL : 250 mg/kg Application Route : Ingestion Exposure time : 28 d

Dose : 62.5, 250, 1000 mg/kg bw/da Method : OECD Test Guideline 422

Species : Rat, male and female

NOEC : 250 mg/m3
Application Route : Ingestion
Test atmosphere : vapour
Exposure time : 8 640 h
Number of exposures : 7 d

Method : Subacute toxicity

#### n-octane:

according to Regulation (EC) No. 1907/2006



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Species : Rat, male and female

NOAEL : 24,3 mg/l

Application Route : inhalation (vapour)

Test atmosphere : vapour Exposure time : 13 weeks Number of exposures : 6h/d, 5d/wk

Dose : 668, 2220 and 6646ppm

Control Group : yes

Method : OECD Test Guideline 413

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, male NOAEL : 8,4 mg/l

Application Route : inhalation (vapour)

Test atmosphere : vapour
Exposure time : 13 weeks
Number of exposures : 6h/d. 5d/wk
Dose : 1.9, 3.1, 8.4mg/L

Control Group : yes

Method : OECD Test Guideline 413

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, male NOAEL : > 14 mg/l

Application Route : inhalation (vapour)

Test atmosphere : vapour Exposure time : 3 days Number of exposures : 8hr/d

Dose :  $0, 1.4, 4.2, 14g/m^3$ 

Control Group : yes

Method : No information available.

#### **Aspiration toxicity**

#### Components:

# Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

May be fatal if swallowed and enters airways.

#### methylcyclohexane:

May be fatal if swallowed and enters airways.

#### n-octane:

May be fatal if swallowed and enters airways.

## cyclohexane:

May be fatal if swallowed and enters airways.

# hexane (containing < 5 % n-hexane (203-777-6)):

May be fatal if swallowed and enters airways.

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#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

**Product:** 

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher

# Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

**Neurological effects** 

No data available

**Further information** 

**Product:** 

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

Solvents may degrease the skin.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

#### **Components:**

## Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Toxicity to fish : LL50 : 10 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 4,5 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (algae)): 3,7 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (algae)): 0,5 mg/l

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 201

according to Regulation (EC) No. 1907/2006



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Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOELR: 2,6 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

methylcyclohexane:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 2,07 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,326 mg/l

Exposure time: 48 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (algae)): 0,134 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)):

0.0221 ma/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water

M-Factor (Acute aquatic

toxicity)

1

Toxicity to microorganisms : NOEC (activated sludge): 2,755 mg/l

Exposure time: 14 d Test Type: static test

Test substance: Fresh water

n-octane:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2,587 mg/l

Exposure time: 96 h Method: QSAR

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,3 mg/l

Exposure time: 48 h Test Type: static test Method: Other guidelines

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (algae)): 2,084 mg/l

Exposure time: 72 h

Method: QSAR

according to Regulation (EC) No. 1907/2006



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NOELR (Pseudokirchneriella subcapitata (algae)): 0,466 mg/l

Exposure time: 72 h Method: QSAR

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to microorganisms

EL50 (Tetrahymena pyriformis): 10,86 mg/l

Exposure time: 48 h Method: QSAR

Toxicity to fish (Chronic

toxicity)

: 0,579 mg/l

Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOELR: 1 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

NOEC: 0,17 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

1

cyclohexane:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,53 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203

LC50: 93 - 117 mg/l Exposure time: 96 h

LC0 : 32 mg/l Exposure time: 96 h

Method: No information available.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

EC50: 3,78 mg/l Exposure time: 48 h

Toxicity to algae/aquatic

plants

: IC50 : > 500 mg/l

Exposure time: 72 h

ErC50 (Pseudokirchneriella subcapitata (green algae)): >

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4.425 ma/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,925

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to microorganisms : IC50 : 24 mg/l

Exposure time: 15 h

M-Factor (Chronic aquatic

toxicity)

: 1

#### hexane (containing < 5 % n-hexane (203-777-6)):

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 3,649 mg/l

End point: Immobilization Exposure time: 48 h

Test substance: Fresh water Method: Calculation method

GLP: no

Toxicity to algae/aquatic

plants

EC50 (green algae): 4,321 mg/l

Exposure time: 96 h

Method: Calculation method

GLP: no

#### 12.2 Persistence and degradability

#### **Components:**

#### Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Biodegradability Result: Inherently biodegradable.

methylcyclohexane:

Biodegradability Test Type: aerobic

> Inoculum: activated sludge Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Photodegradation Test Type: Air

Rate constant: < .00001

Degradation (direct photolysis): 50 %

#### n-octane:

according to Regulation (EC) No. 1907/2006



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Biodegradability : Result: Readily biodegradable.

Biodegradation: 70 % Exposure time: 10 d

cyclohexane:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: < 60 % Exposure time: 28 d

hexane (containing < 5 % n-hexane (203-777-6)):

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, adapted

Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 93 % Exposure time: 28 d

Method: OECD Test Guideline 301C

GLP: yes

Biochemical Oxygen : 105 - 121 mg/g

Demand (BOD) Method: OECD Test Guideline 301C

GLP: yes

12.3 Bioaccumulative potential

**Components:** 

methylcyclohexane:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 56 d

Bioconcentration factor (BCF): 95 - 321

Method: flow-through test

Partition coefficient: n-

octanol/water

log Pow: 3,88

n-octane:

Bioaccumulation : Species: Other

Exposure time: 105 min Temperature: 15 °C

Bioconcentration factor (BCF): 198,7

Partition coefficient: n-

octanol/water

log Pow: 5,15

cyclohexane:

Bioaccumulation : Bioconcentration factor (BCF): 89

Partition coefficient: n-

octanol/water

log Pow: 3,44

hexane (containing < 5 % n-hexane (203-777-6)):

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Partition coefficient: n-

octanol/water

log Pow: 3,214 (25 °C)

pH: 7

Method: Calculation method

GLP: no

#### 12.4 Mobility in soil

## **Components:**

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Distribution among : Koc: > 60,7 - < 229,2, log Koc: > 1,783 - < 2,36

environmental compartments Method: Calculation method

methylcyclohexane:

Distribution among

Koc: 233,9

environmental compartments

n-octane:

Distribution among : Koc: 436,8, log Koc: 2,64 environmental compartments Method: Calculation method

cyclohexane:

Distribution among

environmental compartments

Koc: 160

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher

#### 12.7 Other adverse effects

#### **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN : UN 1993
ADR : UN 1993
RID : UN 1993
IMDG : UN 1993
IATA : UN 1993

14.2 UN proper shipping name

**ADN** : FLAMMABLE LIQUID, N.O.S.

(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))

ADR : FLAMMABLE LIQUID, N.O.S.

(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))

RID : FLAMMABLE LIQUID, N.O.S.

(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))

**IMDG** : FLAMMABLE LIQUID, N.O.S.

(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))

IATA : Flammable liquid, n.o.s.

(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADN
 : 3

 ADR
 : 3

 RID
 : 3

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IMDG : 3
IATA : 3

#### 14.4 Packing group

**ADN** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

**ADR** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)

**RID** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

**IMDG** 

Packing group : II Labels : 3 EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo : 364

aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction : 353

(passenger aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

#### 14.5 Environmental hazards

**ADN** 

Environmentally hazardous : yes

**ADR** 

Environmentally hazardous : yes

rid

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

according to Regulation (EC) No. 1907/2006



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

REACH - List of substances subject to authorisation : No (Annex XIV)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

 This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Conditions of restriction for the following entries should be considered:

Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your

vendor.

cyclohexane (Number on list 57)

E1

34

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

E2 ENVIRONMENTAL HAZARDS

Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

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Occupational Illnesses (R-

461-3, France)

: 84, 36

Installations classified for the protection of the environment

(Environment Code R511-9)

: 4331, 4511, 4510, 4734

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

**AIIC** : On the inventory, or in compliance with the inventory

**ENCS** : On the inventory, or in compliance with the inventory

**KECI** : On the inventory, or in compliance with the inventory

**PICCS** : On the inventory, or in compliance with the inventory

**IECSC** : On the inventory, or in compliance with the inventory

**TCSI** : On the inventory, or in compliance with the inventory

**TSCA** : All substances listed as active on the TSCA inventory

#### **Inventories**

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

#### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H225 : Highly flammable liquid and vapour.

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H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H336 : May cause drowsiness or dizziness.

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.

#### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Flam. Liq. : Flammable liquids Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure 2006/15/EC : Europe. Indicative occupational exposure limit values

FR VLE : France. Occupational Exposure Limits

2006/15/EC / TWA : Limit Value - eight hours
FR VLE / VME : Time Weighted Average
FR VLE / VLCT (VLE) : Short Term Exposure Limit

#### Further information

## Classification of the mixture: Classification procedure:

Flam. Liq. 2	H225	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	Calculation method

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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