# Meccanocar Italia S.r.I. Revision nr. 1 Dated 26/06/2020 First compilation Printed on 26/06/2020 Page n. 1/20

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: 411 00 19540-6130

Product name ANTI-WHISTLE FOR BRAKES

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

Intended use Vehicle maintenance product

1.3. Details of the supplier of the safety data sheet

NameMeccanocar Italia S.r.I.Full addressVia San Francesco, 22District and Country56033 Capannoli (PI)

Italy

Tel. +39 0587 609433 Fax +39 0587 607145

e-mail address of the competent person

responsible for the Safety Data Sheet moreno.meini@meccanocar.it

1.4. Emergency telephone number

For urgent inquiries refer to National Poisons Information Service: +44 121 507 4123

# **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1

H222
H229

Specific target organ toxicity - single exposure, category 3
Hazardous to the aquatic environment, chronic toxicity, category 2

H229

H336

May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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# **ANTI-WHISTLE FOR BRAKES**

## Hazard pictograms:







Signal words: Danger

## Hazard statements:

**H222** Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

## Precautionary statements:

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

**P251** Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

**P211** Do not spray on an open flame or other ignition source.

P331 Do NOT induce vomiting.

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

Contains: PENTANO

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

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

## 3.2. Mixtures

# Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

CAS -  $37,5 \le x < 40$  Flam. Liq. 2 H225, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2

H411

EC 920-750-0

INDEX -

Reg. no. 01-2119473851-33-XXXX

**PENTANO** 

CAS 109-66-0 21 ≤ x < 22,5 Flam. Liq. 1 H224, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2

H411, EUH066

EC 203-692-4 INDEX -

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# ANTI-WHISTLE FOR BRAKES

Reg. no. 01-2119459286-30-XXXX

**PROPANE** 

CAS 74-98-6 16,5 ≤ x < 18 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: U

EC 200-827-9

INDEX 601-003-00-5

Reg. no. 01-2119486944-21-XXXX

**BUTANE** 

CAS 106-97-8 10,5 ≤ x < 12 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: C U

EC 203-448-7

INDEX 601-004-00-0

Reg. no. 01-2119474691-32-XXXX

**ISOBUTANE** 

CAS 75-28-5 10,5 ≤ x < 12 Flam. Gas 1A H220, Press. Gas H280

EC 200-857-2

INDEX 601-004-00-0

Reg. no. 01-2119485395-27-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 40,00 %

# **SECTION 4. First aid measures**

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

## SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

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UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

## 5.3. Advice for firefighters

## GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6. Accidental release measures**

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

#### 6.2. Environmental precautions

Do not disperse in the environment.

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

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

# 7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

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

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

## 7.3. Specific end use(s)

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Information not available

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

## 8.1. Control parameters

# Regulatory References:

ESP España LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) FRA

France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS

GBR United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018) NOR

ACGIH 2019

TLV-ACGIH RCP TLV ACGIH TLVs and BEIs -

Appendix H

Health - Derived no-eff		OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				699 mg/kg bw/d		3,510.1.115		0,01011110
Inhalation				608 mg/m3				2035 mg/m3
Skin				699 mg/kg bw/d				773 mg/kg bw/d
PENTANO								
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water				23	mg	ı/l		
Normal value in marine wat	er			23	mg	ı/l		
Normal value for fresh water sediment			1,2	mg	ı/kg			
Normal value for marine water sediment				1,2	mg	ı/kg		
Normal value of STP microorganisms				360	mg	ı/I		
Normal value for the terrestrial compartment				0,55	mg	ı/kg		
Health - Derived no-eff		OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				214 mg/kg bw/d				
Inhalation				643 mg/m3				3000 mg/m3
Skin				214 mg/kg bw/d				432 mg/kg bw/d
PROPANE								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP		1000					
TLV	NOR	900	500					

# **ISOBUTANE**

**Threshold Limit Value** 

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Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
RCP TLV			1000			RESP

BUTANE Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /	
Турс	Country	1 **/ ( O ! !		0122 1011111		Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP		1000			Gases	
VLEP	FRA	1900	800				
WEL	GBR	1450	600	1810	750		
TLV	NOR	600	250				
TLV-ACGIH					1000		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

## HAND PROTECTION

None required.

# SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

## RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

# **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

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Any specific glove information provided is based on published literature and glove manufacturer data. The suitability of the gloves and breakthrough time will differ according to the specific conditions of use. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for conditions of use. Inspect and replace worn or damaged gloves. The types of gloves to consider for this material include:

Chemical resistant gloves are recommended. If contact with forearms is likely, wear glove-style gloves. Nitrile, CEN EN 420 and EN 374 standards provide general requirements and lists of glove types.

#### PENTANO

Protezione respiratoria: se i controlli tecnici non mantengono le concentrazioni di contaminanti nell'aria a un livello adeguato per proteggere la salute dei lavoratori, può essere appropriato un respiratore approvato. La selezione, l'uso e la manutenzione del respiratore devono essere conformi ai requisiti normativi, se applicabile. I tipi di respiratori da considerare per questo materiale includono:

Respiratore con filtro a mezza faccia Materiale filtrante di tipo AX, le norme EN 136, 140 e 405 del Comitato europeo di standardizzazione (CEN) forniscono maschere respiratorie e EN 149 e 143 forniscono raccomandazioni sui filtri.

Protezione delle mani: qualsiasi informazione specifica sui guanti fornita si basa sulla letteratura pubblicata e sui dati dei produttori di guanti. L'idoneità dei guanti e il tempo di penetrazione differiranno a seconda delle condizioni d'uso specifiche. Contattare il produttore di guanti per consigli specifici sulla selezione dei guanti e sui tempi di passaggio per le condizioni d'uso. Ispezionare e sostituire i guanti usurati o danneggiati. I tipi di guanti da considerare per questo materiale includono:

Si raccomandano quanti resistenti ai prodotti chimici. Nitrile, norme CEN EN 420 e EN 374 forniscono requisiti generali ed elenchi di tipi di quanti.

Protezione degli occhi: se è possibile il contatto, si consiglia di indossare occhiali di sicurezza con protezioni laterali.

Protezione della pelle e del corpo: qualsiasi informazione specifica sull'abbigliamento fornita si basa sulla letteratura pubblicata o sui dati del produttore. I tipi di abbigliamento da considerare per questo materiale includono:

Si consiglia abbigliamento resistente agli agenti chimici / agli oli.

#### ISOBUTANE

Suitable glove material protective gloves, e.g. nitrile butadiene rubber gloves (NBR), leather gloves, heat insulating

Selection of protective gloves to meet specific workplace requirements.

Suitability for specific workplaces must be clarified with the manufacturers of protective gloves.

The information is based on our tests, references from literature and information from glove manufacturers or derived by analogy with similar materials. Remember that the useful time per day of a chemical protection glove can be much shorter than the breakthrough time determined according to EN 374 due to the numerous influencing factors involved.

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

## 9.1. Information on basic physical and chemical properties

Appearance aerosol Colour white Odour solvent Odour threshold Not available Not available pН Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point Not available Evaporation rate Not available Flammability (solid, gas) Not available Lower inflammability limit 0,6 % (V/V) Upper inflammability limit 8 % (V/V) Lower explosive limit Not available Upper explosive limit Not available

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Not available

Not available

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Vapour pressure 3500 hPa Vapour density Not available Not available Relative density Solubility Not available Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Not available Viscosity

## 9.2. Other information

Explosive properties

Oxidising properties

Total solids (250°C / 482°F) 10,00 % VOC (Directive 2010/75/EC) : 86,00 %

# **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

# 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

# PENTANO

Il materiale è stabile in condizioni normali.

## 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

# ISOBUTANE

Vapors can form an explosive mixture with air.

## BUTANE

Vapors can form an explosive mixture with air.

## 10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

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avoid heat, sparks, open flames and other sources of ignition.	
arota riota, oparrio, opor ritarrios and other sources or ignition	
PENTANO	
Avoid heat, sparks, open flames and other sources of ignition.	
ISOBUTANE	
Keep away from heat and other causes of fire.	
BUTANE	
Avoid heat and sources of ignition.	
<b>3</b>	
10.5. Incompatible materials	
Strong reducing or oxidising agents, strong acids or alkalis, hot material.	
HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES	
strong oxidants	
PENTANO	
LIVIANO	
Strong oxidants.	
ISOBUTANE	
Strong oxidizing agents, chlorine, oxygen.	
3 3 3 4 3 4 7 4 7 3 4 7 3	
BUTANE	
Strong oxidizing agents, chlorine, oxygen.	
Strong oxidizing agents, unforme, oxygen.	
10.6. Hazardous decomposition products	
PENTANO	
Il materiale non si decompone a temperatura ambiente.	
ח המנטחמט חטון או מפטטווףטוופ מ נפווףפומנעומ מוווטופוונפ.	
ISOBUTANE	

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# **ANTI-WHISTLE FOR BRAKES**

In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO2).

BUTANE

In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO2).

# **SECTION 11. Toxicological information**

## 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

# **ACUTE TOXICITY**

LC50 (Inhalation) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture:

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

# HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Not indicated

Reliability: 2

Species: Rat (Charles River CD; male / female)

Route of exposure: Oral Results: LD50> 8 mL / kg bw

Method: Equivalent or similar to OECD Guideline 403

Reliability: 2

Species: Rat (Wistar; male / female) Route of exposure: Inhalation (vapors) Results: LC50> 23.3 mg / L air

Method: Not indicated

Reliability: 2

Species: Rat (Charles River CD; male / female)

Route of exposure: Dermal Results: LD50> = 4 mL / kg bw

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# ANTI-WHISTLE FOR BRAKES

#### PENTANO

Metodo: OECD 401 Affidabilità: 1

Specie: Ratto (Crl:CDBR; maschio/femmina)

Via d'esposizione: Orale Risultati: LD50>2000 mg/kg bw

Metodo: Non indicato

Affidabilità: 2

Specie: Ratto (Wistar; maschio), topo (Albino; femmina)

Via d'esposizione: Inalazione (vapori)

Risultati: 21000 ppm (maschio), 23500 ppm (femmina)

#### PROPANE

Method: To study the concentrations at which the effects of the CNS occur following exposure by inhalation to propane by measuring LC50 (15 min) and EC50 (CNS) (10 min) in rats.

Reliability: 2

Species: Rat (Alderley Park (SPF): male / female)

Route of exposure: Inhalation Results: LC50> 800 000 ppm

## BUTANE

Method: Not indicated

Reliability: 2

Species: Rat (Alderley Park (SPF); male / female)

Route of exposure: Inhalation Results: LC50: 1 443 mg / L air

# SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: OECD Guideline 404

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal Results: Not irritating

# PENTANO

Metodo: Equivalente o similare a OECD 404

Affidabilità: 1

Specie: Coniglio (New Zealand White)

Via d'esposizione: Cutanea Risultati: Non classificato

# SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Not indicated

Reliability: 2

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Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

## PENTANO

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

# RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Skin sensitization

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Equivalent or similar to OECD Guideline 406

Reliability: 2

Species: guinea pig (male / female) Route of exposure: Dermal Results: Not sensitizing

## PENTANO

Metodo: Equivalente o similare a OECD 406

Affidabilità: 1

Specie: Porcellino d'india (Hartley; femmina)

Via d'esposizione: Cutanea Risultati: Non sensibilizzante

# GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Equivalent or similar to OECD Guideline 471-in vitro test

Reliability: 1
Species: S. typhimurium, E.Coli

Results: Negative with and without metabolic activation

Method: Equivalent or similar to OECD Guideline 474-test in vivo

Reliability: 1

Species: Mouse (CD-1; male) Route of exposure: Oral Results: Negative

## PENTANO

Metodo: EU Method B.10-Test in vitro

Affidabilità: 1

Specie: Criceto cinese

Risultati: Negativo con e senza attivazione metabolica

Metodo: EU Method B.12-Test in vivo

Affidabilità: 1

Specie: Ratto (Crl:CDBR; maschio/femmina) Via d'esposizione: Inalazione (vapori)

Risultati: Negativo

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#### PROPANE

Method: OECD 471 in vitro test

Reliability: 1

Species: Histidine Salmonella

Results: Negative with or without metabolic activation

Method: OECD 474-test in vivo

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation (gas)

Results: Negative

## BUTANE

Method: OECD 471 in vitro test

Reliability: 1
Species: Salmonella strains, S. typhimurium Results: Negative without metabolic activation

Method: OECD 474-test in vivo

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation (gas)

Results: Negative

## CARCINOGENICITY

Does not meet the classification criteria for this hazard class

# REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

# BUTANE

Method: OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation Results: NOAEC 10000 ppm

Adverse effects on sexual function and fertility

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Equivalent or similar to OECD Guideline 416

Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors)

Results: NOAEL 31 680 mg / m³ air

## PENTANO

Metodo: OECD 415-Read across

Affidabilità: 1

Specie: Ratto (Sprague-Dawley; maschio/femmina)

Via d'esposizione: Orale

Risultati: NOAEL (fertilità)=300 mg/kg bw/day

## PROPANE

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# ANTI-WHISTLE FOR BRAKES

Method: OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation Results: NOAEC (fertility) 10 000 ppm

Adverse effects on development of the offspring

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Food and Drug Administration 1966 "Guidelines for Reproduction Studies for Safety Evaluation of Drugs for Human Use", Segment II

(Teratology Study). Reliability: 2

Species: Rat (CD (SD))

Route of exposure: Inhalation (vapors) Results: NOAEC 1 200 ppm

## PENTANO

Metodo: OECD 414

Affidabilità: 1

Specie: Ratto (Crl:CD BR VAF/Plus)

Via d'esposizione: Orale

Risultati: NOAEL (sviluppo)=1000 mg/kg bw/day

## PROPANE

Method: EPA OPPTS 870.3700

Reliability: 1

Species: Rat (VAF / Plus®, Sprague-Dawley Derived (CD®) Crl: CD® IGS BR)

Route of exposure: Inhalation (gas)

Results: NOAEC (development) 10 426 ppm

# STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

# PENTANO

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

## PROPANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

## ISOBUTANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

# BUTANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

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# **ANTI-WHISTLE FOR BRAKES**

Target organ

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Central nervous system

PENTANO

Narcosis

Route of exposure

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Inhalation

PENTANO

Inhalation

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Method: Equivalent or similar to OECD Guideline 413

Reliability: 2

Species: Rat (Albino Harlan-Wistar; male) Route of exposure: Inhalation (vapors) Results: NOAEC 5 800 mg / m³ air

# PENTANO

Metodo: OECD 413

Affidabilità: 1

Specie: Ratto (Crl: CDBR; maschio/femmina)

Via d'esposizione: Inalazione (gas) Risultati: NOAEC=20000 mg/m3 air

# PROPANE

Method: OECD 422

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (gas) Results: NOAEC 16 000 ppm

# ISOBUTANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

# BUTANE

Method: OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (gas) Results: NOAEC = 10000 ppm

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## **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity

**PENTANO** 

EC50 - for Crustacea 2,7 mg/l/48h

## 12.2. Persistence and degradability

HYDROCARBONS, C7-C9, N-ALCANS, ISOALKANS, CYCLES

Quickly biodegradable, 98% in 28 days.

PENTANO

Facilmente degradabile in acqua, 87% in 28 giorni.

BUTANE

Quickly degradable in water.

**BUTANE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

BUTANE

Partition coefficient: n-octanol/water 1,09

**PROPANE** 

Partition coefficient: n-octanol/water 1,09

12.4. Mobility in soil

Information not available

# 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# 12.6. Other adverse effects

Information not available

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# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### PENTANO

The product is suitable for combustion in a closed controlled burner for the value or disposal of the fuel by supervised incineration at very high temperatures to prevent the formation of undesirable combustion products.

#### ISOBLITANE

Compliance with local regulations, e.g. incineration through flaring system.

No waste key number according to the European list of waste types can be assigned to this product, since this classification is based on the use (not yet determined) for which the product is intended for the consumer.

The key number for the waste must be determined according to the European waste type list (decision on the EU waste type list 2000/532 / EC) in collaboration with the disposal company / producer / authority Official.

#### BUTANE

No waste key number according to the European list of waste types can be assigned to this product, since this classification is based on the use (not yet determined) for which the product is intended for the consumer.

The key number for the waste must be determined according to the European waste type list (decision on the EU waste type list 2000/532 / EC) in collaboration with the disposal company / producer / authority Official.

# **SECTION 14. Transport information**

## 14.1. UN number

ADR / RID, IMDG, 1950 IATA:

## 14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

## 14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1



# 14.4. Packing group

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ADR / RID, IMDG,

IATA:

IMDG:

IATA:

## 14.5. Environmental hazards

ADR / RID: NO IMDG: NO NO IATA:

# 14.6. Special precautions for user

ADR / RID: HIN - Kemler: --Limited

Tunnel restriction Quantities: 1 code: (D)

Packaging

Packaging

instructions:

Special Provision: -EMS: F-D, S-U

Pass.:

Limited Quantities: 1

Cargo:

Maximum

quantity: 150 Kg

Maximum

quantity: 75

instructions: 203

Kg

**Special Instructions:** A145, A167,

A802

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

# **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: P3a-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>Product</u>

40 Point

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

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# **ANTI-WHISTLE FOR BRAKES**

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

## Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

## 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A Flammable gas, category 1A

Aerosol 1 Aerosol, category 1
Aerosol, category 3

Flam. Liq. 1 Flammable liquid, category 1
Flam. Liq. 2 Flammable liquid, category 2

Press. Gas (Liq.) Liquefied gas
Press. Gas Pressurised gas

Asp. Tox. 1 Aspiration hazard, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.
 H224 Extremely flammable liquid and vapour.
 H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may burst if heated.H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008

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# ANTI-WHISTLE FOR BRAKES

- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

## GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
   The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.