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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 20990-6408
Product name HEADLIGHT POLISHER

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Spray product for polishing yellowed headlights

1.3. Details of the supplier of the safety data sheet

Name Meccanocar Italia S.r.I.
Full address Via San Francesco, 22
District and Country 56033 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 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

2.2. Label elements

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

Hazard pictograms:

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Signal words: Danger

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

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.

Contains: HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

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)

BUTANE

CAS 106-97-8 15 \leq x < 16,5 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

PROPANE

CAS 74-98-6 10,5 \leq x < 12 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

ISOBUTANE

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

EC 200-857-2

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INDEX 601-004-00-0

Reg. no. 01-2119485395-27-XXXX

HYDROCARBONS, C11-C13, ISOALKANS, <2% AROMATIC

CAS 246538-78-3 8 ≤ x < 9 Asp. Tox. 1 H304, EUH066

EC 920-901-0

INDEX -

Reg. no. 01-2119456810-40-XXXX

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES,

<2% AROMATIC

CAS 64742-48-9 4,5 ≤ x < 5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066

EC 919-857-5

INDEX -

Reg. no. 01-2119463258-33-XXXX

2-BUTOXYETHANOL

CAS 111-76-2 1,5 ≤ x < 2 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0

INDEX 603-014-00-0

Reg. no. 01-2119475108-36-XXXX

AMMONIA

CAS 1336-21-6 0,25 ≤ x < 0,3 Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1

H400 M=1, Classification note according to Annex VI to the CLP Regulation:

В

INDEX 007-001-01-2

MORPHOLINE

EC 215-647-6

CAS 110-91-8 0,25 ≤ x < 0,3 Flam. Liq. 3 H226, Acute Tox. 3 H311, Acute Tox. 4 H302, Acute Tox. 4

H332, Skin Corr. 1B H314, Eye Dam. 1 H318 EC 203-815-1

INDEX 613-028-00-9

2-METHOXYETHANOL

CAS 109-86-4 0,05 ≤ x < 0,1 Flam. Liq. 3 H226, Repr. 1B H360FD, Acute Tox. 4 H302, Acute Tox. 4 H312,

Acute Tox. 4 H332

EC 203-713-7 INDEX 603-011-00-4

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: 37,00 %

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

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SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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.

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.

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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)

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)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om
		arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
		trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no
		trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
EU	TLV-ACGIH	ACGIH 2019
	DCD TLV	ACCILITIVe and PEIs

RCP TLV ACGIH ZUIS ACGIH TLVs and BEIs –
Appendix H

BUTANE							
Threshold Limit Val	ue						
Туре	Country	TWA/8h		STEL/15min	1	Remarks / 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		

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	

PROPANE Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP		1000				
TLV	NOR	900	500				
TLV-ACGIH			1000				

HYDROCARBONS, C11-C Threshold Limit Value	13, ISOALKAN	IS, <2% AROM	ATIC			
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	1200	171			

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	98	20	245	50	SKIN	
VLEP	FRA	49	10	246	50	SKIN	
WEL	GBR	123	25	246	50	SKIN	
VLEP	ITA	98	20	246	50	SKIN	
TLV	NOR	50	10			SKIN	
VLE	PRT	98	20	246	50	SKIN	
OEL	EU	98	20	246	50	SKIN	
TLV-ACGIH		97	20				
Predicted no-effect con	centration - PNEC						
Normal value in fresh w	/ater			8,8	m	ng/l	
Normal value in marine	water			0,88	n	ng/l	
Normal value for fresh	water sediment			34,6	mg/kg		
Normal value for marine	e water sediment			3,46	n	ng/kg	
Normal value of STP m	icroorganisms			463	n	ng/l	
Normal value for the for	od chain (secondary poise	oning)		0,02	n	ng/kg	
Normal value for the ter	rrestrial compartment			2,33	n	ng/kg	

Health - Derived no-effe	ect level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral		26,7 mg/kg		6,3 mg/kg				
		bw/d		bw/d				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3			98 mg/m3

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Skin

89 mg/kg/d

75 mg/kg bw/d 89 mg/kg bw/d 125 mg/kg bw/d

MC	R	PHC	LI	ΝE

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	36	10	72	20		
VLEP	FRA	36	10	72	20		
WEL	GBR	36	10	72	20	SKIN	
VLEP	ITA	36	10	72	20	SKIN	
TLV	NOR	36	10			SKIN	
VLE	PRT	36	10	72	20		
OEL	EU	36	10	72	20		
TLV-ACGIH		71	20			SKIN	

AMMONIA

Threshold Limit Val	ue						
Туре	Country	TWA/8h	TWA/8h			Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	IT A	4.4	00	00			
VLEP	ITA	14	20	36	50		
OEL	EU	14	20	36	50		
TLV-ACGIH		17	25	24	35		

2-METHOXYETHANOL

Threshold Limit Val	ue						
Туре	Country	TWA/8h		STEL/15min	1	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	3	1			SKIN	
VLEP	FRA	3,2	1			SKIN	
WEL	GBR	3	1			SKIN	
VLEP	ITA		0,5			SKIN	
TLV	NOR	3,1	1			SKIN	
VLE	PRT		1			SKIN	
OEL	EU		1			SKIN	
TLV-ACGIH		0,31	0,1			SKIN	

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

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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.

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.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Chemical resistant gloves are recommended. Nitrile, standards CEN EN 420 and EN 374 provide general requirements and lists of types of gloves.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance aerosol
Colour opalescent

Odour characteristic, pungent

Odour threshold Not available pH Not available Melting point / freezing point Not available Initial boiling point 42,1 °C Boiling range Not available

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Flash point 1,86 °C Not available Evaporation rate Flammability (solid, gas) Not available Lower inflammability limit 1,9 % (V/V) Upper inflammability limit 15 % (V/V) Lower explosive limit 1,9 % (V/V) Upper explosive limit 15 % (V/V) Vapour pressure 275 1500 Vapour density Not available

Relative density 0,85

Solubility partially soluble in water

Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 43,78 % - 372,13 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-BUTOXYETHANOL

Decomposes under the effect of heat.

MORPHOLINE

On contact with: strong oxidising agents, reducing agents, strong acids, strong bases. May develop: heat.

AMMONIA

Corrodes: aluminium,iron,zinc,copper,copper alloys.

2-METHOXYETHANOL

Decomposes under the effect of heat.

10.2. Chemical stability

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

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2-METHOXYETHANOL	
Stable in normal conditions of use and storage.	
10.3. Possibility of hazardous reactions	
No hazardous reactions are foreseeable in normal conditions of use and storage.	
BUTANE	
Vapors can form an explosive mixture with air.	
ISOBUTANE	
Vapors can form an explosive mixture with air.	
2-BUTOXYETHANOL	
May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.	
AMMONIA	
Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.	
2-METHOXYETHANOL	
Forms peroxides with: air,oxidising agents.Possibility of explosion.May react dangerously with: strong bases,alur	ninium,magnesium.
10.4. Conditions to avoid	
Avoid overheating.	
BUTANE	
Avoid heat and sources of ignition.	
ISOBUTANE	
Keep away from heat and other causes of fire.	
HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC	
Avoid heat, sparks, open flames and other sources of ignition.	
2-BUTOXYETHANOL	
Avoid exposure to: sources of heat,naked flames.	

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High temperatures and sources of ignition. Prolonged exposure with air / oxygen and light.	
2-METHOXYETHANOL	
Avoid exposure to: light,sources of heat,naked flames.	
10.5. Incompatible materials	
Strong reducing or oxidising agents, strong acids or alkalis, hot material.	
BUTANE	
Strong oxidizing agents, chlorine, oxygen.	
ISOBUTANE	
Strong oxidizing agents, chlorine, oxygen.	
HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC	
Strong oxidants	
2-BUTOXYETHANOL	
Oxidizing agents.	
AMMONIA	
Incompatible with: silver,silver salts,lead,lead salts,zinc,zinc salts,hydrochloric acid,nitric acid,oleum,halogens,acro	olein, nitromethane, acrylic acid.
10.6. Hazardous decomposition products	
BUTANE	
In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO2).	
ISOBUTANE	
In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO2).	
2-BUTOXYETHANOL	
May develop: hydrogen.	

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Carbon oxides.	
AMMONIA	
May develop: nitric oxide.	
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	
2-METHOXYETHANOL	
The effects usually appear after a delay of several hours. These combine digestive disorders with irritation (nausea, disorders (confusion, agitation, muscle weakness) and sometimes hyperventilation. In more severe cases, the pati serious kidney damage. Chronic exposure by inhalation or via the skin cause chronic neuro-digestive symptoms and negative effects on male fertility. Exposure combined with other glycol ethers causes an increase in miscarriages. In gastritis and pancreatitis (INRS, 2014).	ent goes into a coma. Some develop d haematological diseases, as well as
Interactive effects	
Information not available	
ACUTE TOXICITY	
LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg	
HYDROCARBONS, C11-C13, ISOALKANS, <2% AROMATIC	

LD50 (Oral) 5000 mg/kg Rat

2-BUTOXYETHANOL

LD50 (Dermal) 5000 mg/kg Rabbit

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LD50 (Oral) 615 mg/kg Rat

LD50 (Dermal) 405 mg/kg Rabbit

LC50 (Inhalation) 2,2 mg/l/4h Rat

AMMONIA

LD50 (Oral) 350 mg/kg Rat

MORPHOLINE

LD50 (Oral) 1050 mg/kg Rat

LD50 (Dermal) 500 mg/kg Rabbit

LC50 (Inhalation) 35,1 mg/l/1h Rat

2-METHOXYETHANOL

LD50 (Oral) 2460 mg/kg Rat

LD50 (Dermal) 2000 mg/kg Rat

LC50 (Inhalation) > 12,4 mg/l/4h Rat

BUTANE

Method: Not indicated

Reliability: 2

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

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

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

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 423 Reliability: 2

Species: Rat (Wistar; male / female)

Route of exposure: Oral

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Results: LD50> 15 000 mg / kg bw

Method: Equivalent or similar to OECD 403

Reliability: 1
Species: Rat (Crj: CD (SD); male / female) Route of exposure: Inhalation (vapors) Results: LC50> 4 951 mg / m³ air Method: Equivalent or similar to OECD 402

Reliability: 2

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal Results: LD50> 5 000 mg / kg bw

2-BUTOXYETHANOL

Method: OECD 401

Reliability: 1

Species: guinea pig (Hartley; male / female)

Route of exposure: Oral

Results: LD50 = 1414 mg / kg bw Method: CFR title 49, section 173.132

Reliability: 2

Species: Guinea pig (Dunkin-Hartley; male / female)

Route of exposure: Inhalation (vapor)

Results: Not classified Method: OECD 402 Reliability: 1

Species: guinea pig (Hartley; male / female)

Route of exposure: Dermal Results: Not classified

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 404

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

2-BUTOXYETHANOL

Method: EU Method B.4

Reliability: 2

Species: Rabbit (New Zealand white; male / female)

Route of exposure: Dermal

Results: Irritating

Bibliographic reference: Jacobs G, Martens M, Mosselmans G, Proposal of limit concentrations for skin irritation within the context of a new EEC directive on the classification and labeling of preparations. (1987)

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 405 Reliability: 1

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Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

2-BUTOXYETHANOL

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand white; male / female)

Route of exposure: Ocular

Results: Irritating

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

2-BUTOXYETHANOL

Method: OECD 406

Reliability: 1

Species: Guinea pig (Dunkin-Hartley; male / female)

Route of exposure: Dermal Results: Not sensitizing

Method: Equivalent or similar to OECD 474-Test in vivo

Reliability: 1 Species: Mouse (B6C3F1)

Results: Negative

Skin sensitization

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 406

Reliability: 2

Species: guinea pig (Hartley; female) Route of exposure: Dermal

Results: Not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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

PROPANE

Method: OECD 471 in vitro test

Reliability: 1

Species: Histidine Salmonella

Results: Negative with or without metabolic activation

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Method: OECD 474-test in vivo

Reliability: 1

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

Route of exposure: Inhalation (gas)

Results: Negative

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 471 in vitro test

Reliability: 1 Species: S. typhimurium

Results: Negative with or without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test

Reliability: 1

Species: Mouse (CD-1; male / female)

Route of exposure: Oral Results: Negative

2-BUTOXYETHANOL

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 1

Species: S. typhimurium TA 1535

Results: negative Bibliographic reference:

Method: Equivalent or similar to OECD 474-Test in vivo

Reliability: 1

Species: Mouse (B6C3F1)

Results: Negative

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (F344 / N; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC 138 mg / m³ air

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

2-BUTOXYETHANOL

Method: Not indicated

Reliability: 1

Species: Mouse (CD-1; male / female)

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Route of exposure: Oral

Results: NOAEL = 720 mg / kg bw / day

Bibliographic reference: Heindel JJ, Gulati DK, Russel VS, Reel JR, Lawton AD and Lamb JC, Assessment of Ethylene Glycol Monobutyl and monophenol Ether reproductive toxicity using a continuous breeding protocol in Swiss CD-1 mice (1990).

Adverse effects on sexual function and fertility

PROPANE

Method: OECD 413

Reliability: 1

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

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

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD TG 413

Reliability: 1

Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC> = 400 ppm

Adverse effects on development of the offspring

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

Does not meet the classification criteria for this hazard class

BUTANE

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.

PROPANE

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

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

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

2-BUTOXYETHANOL

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

Route of exposure

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HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Dermal and inhalation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

BUTANE

Method: OECD 413

Reliability: 1

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

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

PROPANE

Method: OECD 422

Reliability: 1

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

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

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 422

Reliability: 1

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

Route of exposure: Oral

Results: NOAEL> = 1000 mg / kg / day Method: Equivalent or similar to OECD 413

Reliability: 1

Species: Rat (Albino; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC 10186 mg / m3

2-BUTOXYETHANOL

Method: Equivalent or similar to OECD 408

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: Negative, NOAEL <69 mg / kg bw Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC <31 ppm Method: Equivalent or similar to OECD 411

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal

Results: Negative; NOAEL> 150 mg / kg bw / day

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ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

12.1. Toxicity

IDROCARBURI, C11-C13, ISOALCANI,

<2% AROMATICI

 LC50 - for Fish
 1000 mg/l/96h

 EC50 - for Crustacea
 1000 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 1000 mg/l/72h

 Chronic NOEC for Crustacea
 1 mg/l

AMMONIA

LC50 - for Fish 47 mg/l/96h Channa punctata EC50 - for Crustacea 20 mg/l/48h Daphnia magna

12.2. Persistence and degradability

BUTANE

Quickly degradable in water. 2-BUTOXYETHANOL Easily degradable.

BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

AMMONIA

Degradability: information not available

MORPHOLINE

Solubility in water 1000 - 10000 mg/l

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

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2-METHOXYETHANOL

Solubility in water 1000000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

BUTANE

Partition coefficient: n-octanol/water 1,09

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

MORPHOLINE

Partition coefficient: n-octanol/water -2,55 BCF <0,65

PROPANE

Partition coefficient: n-octanol/water 1,09

2-METHOXYETHANOL

Partition coefficient: n-octanol/water -0,77

12.4. Mobility in soil

MORPHOLINE

Partition coefficient: soil/water -0,6196

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

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.

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

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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.

ISOBUTANE

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.

2-BUTOXYETHANOL

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations.

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

ADR / RID, IMDG,

IATA:

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: -- Limited Tunnel

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				1 ago 11. 22/20			
			Quantities: 1	restriction			
			L	code: (D)			
	Special Provision: -						
IMDG:	EMS: F-D, S-U		Limited Quantities: 1 L				
IATA:	Cargo:		Maximum quantity: 150 Kg	Packaging instructions: 203			
	Pass.:		Maximum quantity: 75	Packaging instructions:			
	Special Instructions:		Kg A145, A167, A802	203			
14.7. Transport in bulk according to	Annex II of Marpol and the IBC Cod	le					
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/E	C: P3a						
Restrictions relating to the product or c	ontained substances pursuant to Anne	ex XVII to EC Regulatio	n 1907/2006				
Product Point	40						
Substances in Candidate List (Art. 59 REACH)							
2-METHOXYETHANOL							
Substances subject to authorisation (Annex XIV REACH)							
None							
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:							
None							
Substances subject to the Rotterdam C	Convention:						
None							
Substances subject to the Stockholm (Convention:						
None							
Healthcare controls							
Information not available							

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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 3 Aerosol, category 3

Flam. Liq. 3 Flammable liquid, category 3

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

Repr. 1B Reproductive toxicity, category 1B

Acute Tox. 3

Acute toxicity, category 3

Acute Tox. 4

Asp. Tox. 1

Skin Corr. 1B

Eye Irrit. 2

Skin Irrit. 2

Acute toxicity, category 4

Aspiration hazard, category 1

Skin corrosion, category 1B

Eye irritation, category 2

Skin Irritation, category 2

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

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may burst if heated.H360FD May damage fertility. May damage the unborn child.

H311 Toxic in contact with skin.
H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

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- 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
- 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 (EU) 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.

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