

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: 4110020670
Product name: MULTI-USE SPRAY PRO
UFI: 8NS1-W0S1-X00V-9TSH

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

Intended use: Lubricant, unblocker, multi-purpose protector

1.3. Details of the supplier of the safety data sheet

Name: Meccanocar Italia S.r.l.
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
Supplier: 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 2020/878. 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	Extremely flammable aerosol. Pressurised container: may burst if heated.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

2.2. Label elements

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

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Hazard pictograms:



Signal words: Danger

Hazard statements:

- H222** Extremely flammable aerosol.
- H229** Pressurised container: may burst if heated.
- H336** May cause drowsiness or dizziness.
- EUH066** Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of reach of children.
- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211** Do not spray on an open flame or other ignition source.
- P251** Do not pierce or burn, even after use.
- P410+P412** Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
- P501** Dispose of the product / container in accordance with local regulations.

Contains: HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC		

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INDEX -	$62 \leq x < 66$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066
EC 919-857-5		
CAS 64742-48-9		
REACH Reg. 01-2119463258-33-XXXX		
BENZENE DERIVATIVES, MONO-C10-13-ALKYL		
INDEX -	$8,5 \leq x < 10$	Asp. Tox. 1 H304
EC 284-660-7		
CAS 84961-70-6		
REACH Reg. 01-2119485843-26-XXXX		
PROPANE		
INDEX 601-003-00-5	$4,5 \leq x < 5$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC 200-827-9		
CAS 74-98-6		
REACH Reg. 01-2119486944-21-XXXX		
CARBON DIOXIDE		
INDEX -	$2,5 \leq x < 3$	Press. Gas (Liq.) H280
EC 204-696-9		
CAS 124-38-9		
ISOBUTANE		
INDEX 601-004-00-0	$2,5 \leq x < 3$	Flam. Gas 1A H220, Press. Gas H280
EC 200-857-2		
CAS 75-28-5		
REACH Reg. 01-2119485395-27-XXXX		
BUTANE		
INDEX 601-004-00-0	$2,5 \leq x < 3$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 203-448-7		
CAS 106-97-8		
REACH Reg. 01-2119474691-32-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: 12,00 %

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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

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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)

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 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	TLV-ACGIH	ACGIH 2023

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RCP TLV

ACGIH TLVs and BEIs –
Appendix H

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,001	mg/l
Normal value in marine water	0,0001	mg/l
Normal value for fresh water sediment	1,65	mg/kg
Normal value for marine water sediment	0,165	mg/kg
Normal value for water, intermittent release	0,001	mg/l
Normal value of STP microorganisms	2	mg/l
Normal value for the terrestrial compartment	0,329	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,2 mg/kg bw/d				
Inhalation				1,6 mg/m3				3,2 mg/m3
Skin				0,23 mg/kg bw/d				4,3 mg/kg bw/d

PROPANE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP		1000	
TLV	NOR	900	500	
NDS/NDSch	POL	1800		
TLV-ACGIH			1000	

BUTANE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP		1000	Gases
VLEP	FRA	1900	800	
TLV	NOR	600	250	
NDS/NDSch	POL	1900	3000	
WEL	GBR	1450	600	1810 750
TLV-ACGIH				1000

ISOBUTANE

Threshold Limit Value

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

CARBON DIOXIDE

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Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	9150	5000			
VLEP	ITA	9000	5000			
RD	LTU	9000	5000			
TLV	NOR	9000	5000			
VLE	PRT	9000	5000			
NDS/NDSch	POL	9000		27000		
WEL	GBR	9150	5000	27400	15000	
OEL	EU	9000	5000			
TLV-ACGIH		9000	5000	54000	30000	

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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 ISO 16321).

RESPIRATORY PROTECTION

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. Use a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

ENVIRONMENTAL EXPOSURE CONTROLS

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

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

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

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

The choice of an appropriate glove depends not only on its material but also on other quality characteristics and is different from one manufacturer to another. Observe the instructions regarding permeability and breakthrough time provided by the glove supplier. Also take into consideration the specific local conditions in which the product is used, such as the danger of cuts, abrasions and contact times. Please note that in daily use the durability of a chemical resistant protective glove may be significantly less than breakthrough time measured according to EN 374, due to numerous external influences.

ISOBUTANE

Suitable glove material protective gloves, e.g. nitrile butadiene rubber (NBR) gloves, leather gloves, heat insulating Selection of protective gloves to meet the requirements of specific workplaces.

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

The information is based on our own tests, references from the literature and information from glove manufacturers or derived by analogy with similar materials.

Remember that the usable time per day of a chemical protective 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

Properties	Value	Information
Appearance	aerosol	
Colour	colourless	
Odour	solvent	
Melting point / freezing point	not available	
Initial boiling point	not available	
Boiling range	130-210 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	39 °C	
Auto-ignition temperature	> 200 °C	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	0,3 kPa	
Density and/or relative density	0,725 g/cm ³	
Relative vapour density	not available	

Particle characteristics not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 5,70 %
VOC (Directive 2010/75/EU) 90,00 % - 666,00 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.

10.2. Chemical stability

The product is 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.

10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Avoid heat, sparks, open flames and other sources of ignition.

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation. Extremes of temperature and direct sunlight

BUTANE

Avoid heat and sources of ignition.

ISOBUTANE

Keep away from heat sources and other sources of fire.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

strong oxidants

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Strong oxidizing agents

BUTANE

Strong oxidizing agents, chlorine, oxygen.

ISOBUTANE

Strong oxidizing agents, chlorine, oxygen.

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).

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

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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

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: Not classified (no significant component)

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Method: OECD 423

Reliability: 2

Species: Rat (Wistar; male/female)

Route of exposure: Oral

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 (vapours)

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

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: OECD 401

Reliability: 1

Species: Rat (Wistar; male/female)

Route of exposure: Oral

Results: LD50 > 2000 mg/kg bw

Method: Sema. 1988. Manual of tests for assessing chemical agents toxicity, 1 ed. Brasilia: MHU.

Reliability: 2

Species: Rat (Wistar; male/female)

Route of exposure: Dermal

Results: LD50 > 3600 mg/kg bw

PROPANE

Method: To study the concentrations at which CNS effects occur following inhalation exposure 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)

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

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Method: Equivalent or similar to OECD 404

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: OECD 404

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Not classified

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Non-irritating

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Not classified

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: OECD 406

Reliability: 1

Species: Guinea pig (Hartley; Female)

Route of exposure: Dermal

Results: Not classified

Skin sensitization

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Method: OECD 406

Reliability: 2

Species: Guinea pig (Hartley; female)

Route of exposure: Dermal

Results: Not sensitizing

GERM CELL MUTAGENICITY

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Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <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

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: OECD 473-in vitro test

Reliability: 1

Species: Chinese hamster

Results: Negative with and without metabolic activation

PROPANE

Method: OECD 471-in vitro test

Reliability: 1

Species: Histidine Salmonella

Results: Negative with or without metabolic activation

Method: OECD 474-in vivo test

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-in vivo test

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

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (F344/N; male/female)

Route of exposure: Inhalation (vapours)

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

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Results: NOAEC 10000 ppm

Adverse effects on sexual function and fertility

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

Method: OECD TG 413

Reliability: 1

Species: Rat (Fischer 344; male/female)

Route of exposure: Inhalation (vapours)

Results: NOAEC >= 400 ppm

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: OECD 422

Reliability: 1

Species: Rat (CrI:CD(SD); male/female)

Route of exposure: Oral

Results: Negative, NOAEL (fertility)=1000 mg/kg bw/day

PROPANE

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

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: Equivalent or similar to OECD 414

Reliability: 1

Species: Rat (Sprague-Dawley)

Route of exposure: Oral

Results: NOAEL (development)=400 mg/kg bw/day

PROPANE

Method: EPA OPPTS 870.3700

Reliability: 1

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

Route of exposure: Inhalation (gas)

Results: NOAEC (development) 10 426 ppm

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC

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

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

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

PROPANE

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

BUTANE

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

ISOBUTANE

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

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CARBON DIOXIDE

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

Route of exposure

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC
Dermal and inhalation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <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 (vapours)

Results: NOAEC 10186 mg/m³

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Method: Equivalent or similar to OECD 408

Reliability: 1

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

Route of exposure: Oral

Results: Negative, NOAEL=1000 ppm

PROPANE

Method: OECD 422

Reliability: 1

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

Route of exposure: Inhalation (gas)

Results: NOAEC 16 000 ppm

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 expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

CARBON DIOXIDE

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

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

BENZENE DERIVATIVES, MONO-C10-13-
ALKYL

LC50 - for Fish > 100 mg/l/96h

EC50 - for Crustacea > 1,4 mg/l/48h

Chronic NOEC for Crustacea 1,4 mg/l

Chronic NOEC for Algae / Aquatic Plants > 2,08 mg/l

12.2. Persistence and degradability

BENZENE DERIVATIVES, MONO-C10-13-ALKYL
Slightly degradable in water, 28% in 28 days.

BUTANE

Rapidly 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 \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.

BENZENE DERIVATIVES, MONO-C10-13-ALKYL

Can be incinerated, if compliant with local regulations.

European Union waste code: CAE

A waste code compliant with the European Waste Catalog (CAE) cannot be assigned to this product as it only allows classification when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

BUTANE

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

The waste key number must be determined according to the European List of Types of Waste (EU List of Types of Waste Decision 2000/532 / EC) in cooperation with the disposal company / producing company / authority official.

ISOBUTANE

Compliance with local regulations, e.g. incineration via flare system.

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

The waste key number must be determined according to the European List of Types of Waste (EU List of Types of Waste Decision 2000/532 / EC) in cooperation with the disposal company / producing company / authority official.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS, FLAMMABLE

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: -

14.5. Environmental hazards

ADR / RID: NO
 IMDG: not marine pollutant
 IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: --	Limited Quantities: 1 L	Tunnel restriction code: (D)
	Special provision: 190, 327, 344, 625		
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Passengers:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provision:	A145, A167, A802	

14.7. Maritime transport in bulk according to IMO instruments

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/EU: P3a

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

Product
 Point 40

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

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 3	Aerosol, category 3
Flam. Liq. 3	Flammable liquid, category 3
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
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 explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

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

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- 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) 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
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 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
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 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
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- 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:

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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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

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