# 4110014720 - MANUAL IGRO FOAM

Revision nr. 3

Dated 03/10/2023

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Replaced revision:2 (Dated: 11/02/2020)

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

4110014720 Code:

Product name **MANUAL IGRO FOAM** UFI: P7KW-QV2K-SQ8A-WFG3

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against Polyurethane sealant and insulating foam for building Intended use

## 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 moreno.meini@meccanocar.it

Supplier:

#### 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	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive toxicity, effects on or via lactation	H362	May cause harm to breast-fed children.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated
		exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

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Hazardous to the aquatic environment, chronic toxicity, category 4

H413

May cause long lasting harmful effects to aquatic life.

### 2.2. Label elements

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

Hazard pictograms:







Signal words: Danger

Hazard statements:

**H222** Extremely flammable aerosol.

**H229** Pressurised container: may burst if heated.

**H351** Suspected of causing cancer.

**H362** May cause harm to breast-fed children.

H332 Harmful if inhaled.

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

H319 Causes serious eye irritation.

H315 Causes skin irritation.

**H335** May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H317** May cause an allergic skin reaction.

**H413** May cause long lasting harmful effects to aquatic life.

**EUH204** Contains isocyanates. May produce an allergic reaction.

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.

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P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

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

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P501 Dispose of contents / container in accordance with local regulations.

Contains: POLYMETHYLENE POLYPHENYL POLYISOCYANATE

CHLORINATED PARAFFINS, C14-17

As from 24 August 2023 adequate training is required before industrial or professional use.

#### 2.3. Other hazards

PBT substances contained:

CHLORINATED PARAFFINS, C14-17

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

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

#### 3.2. Mixtures

Contains:

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

**CHLORINATED PARAFFINS, C14-**

INDEX 602-095-00-X  $40 \le x < 42.5$ Lact. H362, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=10,

FUH066

EC 287-477-0 CAS 85535-85-9

REACH Reg. 01-2119519269-33-

POLYMETHYLENE POLYPHENYL

POLYISOCYANATE

Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin INDEX 615-005-00-9  $28,5 \le x < 30$ 

Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

STA Inhalation mists/powders: 1,5 mg/l

CAS 9016-87-9

**METHYL OXIDE DIMETHYLETER** 

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INDEX - 8 ≤ x < 9 Flam. Gas 1A H220, Press. Gas H280

EC 204-065-8 CAS 115-10-6

REACH Reg. 01-2119472128-37-

XXXX

**ISOBUTANE** 

INDEX 601-004-00-0 7 ≤ x < 8 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  $2 \le x < 2.5$  Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: C, U

EC 203-448-7 CAS 106-97-8

REACH Reg. 01-2119474691-32-

XXXX PROPANE

INDEX 601-003-00-5  $2 \le x < 2,5$  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

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: 20,00 %

# **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**

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#### 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.

### 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

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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:

España Límites de exposición profesional para agentes químicos en España 2021

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

Italia Decreto Legislativo 9 Aprile 2008, n.81

ITA NOR Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i Norge

arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21.

august 2018 nr. 1255

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

ACGIH 2022 ACGIH TLVs and BEIs – GBR TLV-ACGIH RCP TLV

Appendix H

CHI	ORINATI		VEEING	C14 17
(.HI	UKINAII	TIJ PAR	AFFINS.	(.14-1/

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,1	mg/l	
Normal value in marine water	0,02	mg/l	
Normal value for fresh water sediment	13	mg/kg	_
Normal value for marine water sediment	2,6	mg/kg	_
Normal value of STP microorganisms	80	mg/l	_
Normal value for the food chain (secondary poisoning)	10	mg/kg	_
Normal value for the terrestrial compartment	11,9	mg/kg	

lealth - Derived	l no-effect le	evel - DNEL	/ DMEL

	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				0,58 mg/kg bw/d		•		•
Inhalation				2 mg/m3				6,7 mg/m3
Skin				28,75 mg/kg bw/d				47,9 mg/kg bw/d

# **METHYL OXIDE DIMETHYLETER**

Туре	Country	TWA/8h		STEL/15min		Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	ITA	983	400			INHAL	
Predicted no-effect co	oncentration - PNEC						
Normal value in fresh	water			1,55	mg	ŋ/l	
Normal value in marin	e water			0,16	mg	ŋ/l	
Normal value for fresh	water sediment			6,581	mc	ı/kg	

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1894 mg/m3

Normal value for marine water sediment	0,69	mg/kg	
Normal value for water, intermittent release	1,549	mg/l	
Normal value for the terrestrial compartment	0,45	mg/kg	

Health - Derived no-effect level - DNEL / DMEL										
	Effects on				Effects on					
	consumers				workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic		

471 mg/m3

ISOBUTANE Threshold Limit Value						
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				
NDS/NDSCh	POL	1800					
TLV-ACGIH			1000				

BUTANE Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	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		

Legend:

Inhalation

(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.

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Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

None required.

#### SKIN PROTECTION

Wear category II 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.

### ISOBUTANE

Auto-ignition temperature

Suitable glove material Protective gloves, eg. nitrile butadiene rubber gloves (NBR), leather gloves, heat insulating Selection of protective gloves to meet specific workplace requirements.

Suitability for specific workplaces should 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 protective glove can be much shorter than the breakthrough time determined according to EN 374 due to the many influencing factors involved.

Propellant

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

#### 9.1. Information on basic physical and chemical properties

<b>Properties</b> Appearance	Value aerosol	Information
Colour	cream	
Odour	mild	
Melting point / freezing point	not available	
Initial boiling point	< -12 °C	
Flammability	flammable gas	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	< -83 °C	

> 460 °C

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not available

Temperature: 50 °C

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Decomposition temperature not available pH not available
Kinematic viscosity not available
Solubility insoluble in water

Vapour pressure <300000 Pa

Density and/or relative density 964 g/dm3
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

Partition coefficient: n-octanol/water

VOC (Directive 2010/75/EU) 20,89 % - 201,36 g/litre

VOC (volatile carbon) 0

# **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.

CHLORINATED PARAFFINS, C14-17

SADT >200°C/392°F.

### 10.3. Possibility of hazardous reactions

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

CHLORINATED PARAFFINS, C14-17

It can react with alkaline and earth alkaline metals which have a strong affinity for chlorine. It can react with iron, zinc and aluminum at high temperatures leading to decomposition.

### METHYL OXIDE DIMETHYLETER

Vapors can form an explosive mixture with air.

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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.	
CHLORINATED PARAFFINS, C14-17	
Strong oxidizing agents, heat and hot surfaces. Medium chain chlorinated paraffins tend to soften or inflate most gume	s.
METHYL OXIDE DIMETHYLETER	
Temperature:> 52 ° C	
ISOBUTANE	
Keep away from heat and other causes of fire.	
BUTANE	
Avoid heat and sources of ignition.	
10.5. Incompatible materials	
Strong reducing or oxidising agents, strong acids or alkalis, hot material.	
METHYL OXIDE DIMETHYLETER	
Oxygen, oxidizing agents, acid anhydrides, strong acids, carbon monoxide, acetic anhydride, powdered metals.	
ISOBUTANE	
Strong oxidizing agents, chlorine, oxygen.	
BUTANE	
Strong oxidizing agents, chlorine, oxygen.	

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10.6. Hazardous decomposition products	
Total Hazardous decomposition products	
CHLORINATED PARAFFINS, C14-17	
Prolonged heating at temperatures in excess of 70 ° C or heating above 200 ° C for short periods will result in the dec chloride.	composition and release of hydrogen
METHYL OXIDE DIMETHYLETER	
Formaldehyde, carbon dioxide (CO2), carbon monoxide, methanol.	
ISOBUTANE	
In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO2).	
in ease of the of production of thermal accomposition, for example, earborn monoxide, earborn dioxide (002).	
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 hazard classes as defined in Regulation (EC) No 1272/2008	
Metabolism, toxicokinetics, mechanism of action and other information	
Information not available	
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	
information not available	
Interactive effects	

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Information not available

### ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: 4,1 mg/

ATE (Oral) of the mixture:

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

Not classified (no significant component)

CHLORINATED PARAFFINS, C14-17

LD50 (Oral): > 4000 mg/kg Rat - Wistar LC50 (Inhalation vapours): > 48,17 mg/l/1h Rat

POLYMETHYLENE POLYPHENYL POLYISOCYANATE

STA (Inhalation mists/powders): 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

METHYL OXIDE DIMETHYLETER

LC50 (Inhalation vapours): 164000 ppm/4h rat

METHYL OXIDE DIMETHYLETER

Method: Not indicated

Reliability: 2

Species: Rat (albino ChR-CD; male) Route of exposure: Inhalation (gas) Results: LC50: 164 000 ppm

POLYPROPYLENE GLYCOL

Method: OECD 401 Reliability: 1

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

Route of exposure: Oral Results: LD50> 5000 mg / kg bw

Method: OECD 402 Reliability: 1

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

Route of exposure: Dermal Results: LD50> 3000 mg / kg bw

### 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

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### SKIN CORROSION / IRRITATION

Causes skin irritation

CHLORINATED PARAFFINS, C14-17 Method: OECD 404

Reliability: 2 Species: Rabbit

Route of exposure: Dermal Results: Slightly irritating

POLYPROPYLENE GLYCOL Method: EPA OPPTS 870.2500

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal Results: Not irritating

# SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

CHLORINATED PARAFFINS, C14-17

Method: Not indicated Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Slightly irritating

POLYPROPYLENE GLYCOL

Method: Equivalent or similar to EU Method B.5

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Sensitising for the respiratory system

POLYPROPYLENE GLYCOL

Method: OECD 429

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Reliability: 1

Species: Mouse (CBA; female) Route of exposure: Dermal Results: Not sensitizing

### Skin sensitization

#### CHLORINATED PARAFFINS, C14-17

Method: RAR (EU, 2008)

Reliability: 2 Species: guinea pig Route of exposure: Dermal Results: Not sensitizing

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CHLORINATED PARAFFINS, C14-17

Method: Frequency of mutant colonies evaluated in a genetic mutation test (HPRT) with a C10-13 chlorinated paraffin (56% chlorination) - in vitro test

Reliability: 2

Species: Chinese hamster

Results: Negative with or without metabolic activation Method: Equivalent or similar to OECD 475 in vivo test

Reliability: 2

Species: Rat (Fischer 344; male) Route of exposure: Oral Results: Negative

# METHYL OXIDE DIMETHYLETER

Method: OECD 471 in vitro test

Reliability: 1 Species: S. typhimurium Results: Negative

Method: Equivalent or similar to OECD 477 in vivo test

Reliability: 2

Species: Drosophila melanogaster (male) Route of exposure: Inhalation (gas)

Results: Negative

### POLYPROPYLENE GLYCOL Method: OECD 471 in vitro test

Reliability: 1

Species: S. typhimurium

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

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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

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

Suspected of causing cancer

# METHYL OXIDE DIMETHYLETER

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (CD (R) (SD) BR; male / female)
Route of exposure: Inhalation (vapors)

Results: Negative

### REPRODUCTIVE TOXICITY

May cause harm to breast-fed children.

### METHYL OXIDE DIMETHYLETER

Method: Equivalent or similar to OECD 452

Reliability: 1

Species: Rat (CD (SD) BR; male / female) Route of exposure: Inhalation (vapors)

Results: Negative

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

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# CHLORINATED PARAFFINS, C14-17

Method: Equivalent or similar to OECD 414

Reliability: 2

Species: Rabbit (Dutch)
Route of exposure: Oral

Results: NOAEL (development) 100 mg / kg bw / day

# POLYPROPYLENE GLYCOL

Method: OECD 421-Read across

Reliability: 1

Species: Rat (Wistar; 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

### CHLORINATED PARAFFINS, C14-17

Method: Equivalent or similar to OECD Preliminary Reproduction Toxicity Screening Test

Reliability: 2

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

Route of exposure: Oral

Results: NOAEL (fertility) ca. 400 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 respiratory irritation

### CHLORINATED PARAFFINS, C14-17

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

# POLYMETHYLENE POLYPHENYL POLYISOCYANATE

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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#### METHYL OXIDE DIMETHYLETER

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

#### POLYPROPYLENE GLYCOL

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.

#### BUTANE

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

#### STOT - REPEATED EXPOSURE

May cause damage to organs

# CHLORINATED PARAFFINS, C14-17

Method: Equivalent or similar to OECD 408

Reliability: 2

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral Results: NOAEL 300 ppm

# POLYMETHYLENE POLYPHENYL POLYISOCYANATE

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

### METHYL OXIDE DIMETHYLETER

Method: Equivalent or similar to OECD 452

Reliability: 1

Species: Rat (Crl: CD (R) (SD) BR; male / female)

Route of exposure: Inhalation (vapors)
Results: Positive, NOAEL = 2.5%

# POLYPROPYLENE GLYCOL

Method: OECD 407-Read across

Reliability: 1

Species: Rat (Wistar; male / female)

Route of exposure: Oral

Results: Negative, NOAEL> = 1000 mg / kg bw / day

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#### 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

#### BUTANE

Method: OECD 413

Reliability: 1

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

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

#### 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**

This product may damage the structure and/or the functions of the aquatic ecosystems in the long and/or delayed term.

### 12.1. Toxicity

### POLYPROPYLENE GLYCOL

LC50 - for Fish > 100 mg/l/96h Danio rerio
EC50 - for Crustacea 105,8 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus

### CHLORINATED PARAFFINS, C14-17

LC50 - for Fish > 5000 mg/l/96h Alburnus alburnus
EC50 - for Crustacea 0,0077 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 3,2 mg/l/72h Pseudokirchnerella subcapitata

Chronic NOEC for Crustacea 0,01 mg/l Daphnia magna

### METHYL OXIDE DIMETHYLETER

 LC50 - for Fish
 4100 mg/l/96h

 EC50 - for Crustacea
 4400 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 154,917 mg/l/72h

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Chronic NOEC for Fish 4100 mg/l
Chronic NOEC for Crustacea 4400 mg/l

12.2. Persistence and degradability

BUTANE

Quickly degradable in water.

BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

POLYPROPYLENE GLYCOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CHLORINATED PARAFFINS, C14-17

Solubility in water < 0,1 mg/l

NOT rapidly degradable

METHYL OXIDE DIMETHYLETER

Solubility in water 45600 mg/l

12.3. Bioaccumulative potential

**BUTANE** 

Partition coefficient: n-octanol/water 1,09

POLYPROPYLENE GLYCOL

Partition coefficient: n-octanol/water 0,01

**PROPANE** 

Partition coefficient: n-octanol/water 1,09

CHLORINATED PARAFFINS, C14-17

Partition coefficient: n-octanol/water 7,2

METHYL OXIDE DIMETHYLETER

Partition coefficient: n-octanol/water 0,07 Log Kow

12.4. Mobility in soil

POLYPROPYLENE GLYCOL

Partition coefficient: soil/water < 1,25

CHLORINATED PARAFFINS, C14-17

Partition coefficient: soil/water 5

12.5. Results of PBT and vPvB assessment

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PBT substances contained:

CHLORINATED PARAFFINS, C14-17

# 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.

### METHYL OXIDE DIMETHYLETER

It can be used after reconditioning. In accordance with local and national regulations. It must be incinerated in a suitable incineration plant in possession of an authorization issued by the competent authorities.

### 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.

#### 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 or ID number

ADR / RID, IMDG, IATA: 1950

### 14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

#### 14.3. Transport hazard class(es)

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Tunnel

restriction code: (D)

Packaging

Packaging

instructions: 203

instructions: 203

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 Quantities: 1

Special provision: 190, 327, 344, 625

IMDG: EMS: F-D, S-U Limited Quantities: 1

IATA: Cargo:

Passengers:

Maximum quantity: 150

Kg Maximum quantity: 75

Kg

A145, A167, Special provision:

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

<u>Product</u>

Point 40

Contained substance

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Point 75

Point 56 POLYMETHYLENE POLYPHENYL

**POLYISOCYANATE** 

Point 74 DIISOCYANATES

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

not applicable

Substances in Candidate List (Art. 59 REACH)

CHLORINATED PARAFFINS, C14-17

REACH Reg.: 01-2119519269-33-XXXX

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
Press. Gas Pressurised gas

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Press. Gas (Liq.) Liquefied gas

Carc. 2 Carcinogenicity, category 2

Lact. Reproductive toxicity, effects on or via lactation

Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

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

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 1 Skin sensitization, category 1

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

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 4 Hazardous to the aquatic environment, chronic toxicity, category 4

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

**H229** Pressurised container: may burst if heated.

H280 Contains gas under pressure; may explode if heated.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

H332 Harmful if inhaled.

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

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH204 Contains isocyanates. May produce an allergic reaction.

### 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
- 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 as REACH Regulation

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PEC: Predicted environmental Concentration

- PEL: Predicted exposure level
- 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 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) 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
- 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
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- 13. Regulation (EU) 2017/776 (X Atp. CLP)
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- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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.

### 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 / 08 / 09 / 11 / 12 / 14 / 15 / 16.