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

1.1. Product identifier

Commercial name	TURBO MAP
Our Code	MAP/P
Chemical Description	Propylene (Propene)
	INCI nomenclature: Propylene
	Index No: 601-011-00-9
	EC No: 204-062-1
	CAS No: 115-07-1
	REACH No: 01-2119447103-50
	Chemical formula: C ₃ H ₆

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

Relevant identified usesIndustrial and professional use. Perform risk assessment prior to use. Use as fuels, as an Intermediate, functional
fluids, Formulation of mixtures with gas in pressure receptacle. Propellant gas. Use in polymer processing.Advice againstThe pertinent uses are listed here above. Other uses are not recommended unless it has been conducted an
evaluation, before the use, which demonstrates that the risks associated with its use are controlled.

1.3. Details of the supplier of the safety data sheet



MARIEL SRL

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1.4. Emergency telephone number

MARIEL Srl	+39 0322 838319	Mon/Fri: 8.30-12.00 / 13.30-17.30
National Centre for Toxicological Information	+39 0382 24444	Hours: 24 h / 24 h

SECTION 2: Hazards identification

1 Classification of the substance or minture

2.1. Classification of the substance or mixture				
Classification according to in Regulation (EC) No 1272/2008				
Physical hazards	Flammable Gas	Category 1 A	H220	
	Liquefied Gas		H280	

2.2. Label elements

Dangerous pictogram

	\diamond
CHOO	CHCON

	GHSUZ	GH304
Signal word	Danger	
Hazard statements (H)	H220	Extremely flammable gas
	H280	Contains gas under pressure; may explode if heated
Precautionary statements (P)		
Prevention	P210	Keep away from heat, sparks, open flames, hot surfaces – No smoking.
Response	P377	Leaking gas fire – do not extinguish unless leak can be stopped safely.
	P381	Eliminate all ignition sources if safe to do so.
Storage	P403	Store in a well-ventilated place



2.3 Other hazards

n.a.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	%	Index No.	EC No.	CAS No.	REACH No.	Classification Regulation (EC) No 1272/2008 (CLP)
Propylene (Propene)	100%	601-011-00-9	204-062-1	115-07-01	01-2119447103-50	Flam. Gas 1, H220 Press. Gas (Liq.), H280

Contains no other components or impurities which will influence the classification of the product. For more information, see section 8, 11, 12 and 16.

SECTION 4: First aid measures



General information: If the person is unconscious, place it in the recovery position and get immediately medical attention. Do not give anything to an unconscious person. If breathing is irregular, give oxygen. If breathing stopped, administer artificial respiration. If symptoms persist, call a physician.

4.1. Description of first aid measures

Inhalation Skin contact	Remove patience from exposure to fresh air. Administer oxygen if necessary. Obtain immediate medical attention. In case of contact with skin, wash immediately with plenty of water. Remove contaminated clothing. If irritation or blistering occurs, call a physician
Eye contact	Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Unlikely route of exposure. As this product is a gas, refer to the section "Inhalation". Do not induce vomiting without medical advice. Obtain immediate medical attention.

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

Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling. Exposure can aggravate pre-existing respiratory disorders.

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

Do not give adrenaline-ephedrine or similar drugs group. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1. Extinguishing meu		
Suitable extinguishing m	Carbon dioxide (CO ₂), foam, dry chemical power, water spray or fog.	
Unsuitable extinguishing	lia High water jet.	
5.2. Special hazards aris	rom the substance or mixture	
Specific hazards	n incomplete combustion could generate a complex mixture of solid and liquid airborne particles and gases, includ	ing
	D ₂ (carbon monoxide).	
	posure to the source of heat and/or to the fire may cause containers to rupture/explode.	
5.3 Advice for firefighte		
Specific methods	pordinate fire measure to the surrounding fire.	
	security conditions permit, stop leak of product.	
	necessary, use water spray or fog to cool surfaces exposed to fire.	

	Continue water spray from protected position until container stays cool.
	In the event of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-
	contained breathing apparatus operated in positive pressure mode.
	An explosive re-ignition may occur.
Protective equipment	Firefighters must use standard protective equipment including flame resistant clothing, helmet with face shield, gloves

and protective boots in enclosed spaces, SCBA. Firefighters must use standard protective equipment including.



Guideline: EN 469 Protective clothing for firefighters. Performance requirements for protective clothing for firefighting. EN 15090 Footwear for firefighters. EN 659 Protective gloves for firefighters. EN 443 Helmets for firefighting in buildings and other structures. EN 137 Respiratory protective devices - Self-contained open circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

SECTION 6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedures

The vapours are heavier than air and may move along the ground over long distances.

If the safety conditions allow, arrest or contain the leak at the source.

Avoid direct contact with released material. Stay upwind.

In case of large spillages, alert the emergency teams.

If the safety conditions allow, eliminate all sources of (ex.: electricity, sparks, fires, flares).

Use only non-sparking tools.

If required, notify to the relevant authorities in accordance with the applicable legislation.

Spillage of small quantity

Conventional antistatic working clothes are usually adequate. If contact with liquefied product is possible or predictable, use gloves thermally insulated to prevent frostbite. Pay particular attention to the accumulation in confined spaces. You can use flammable gases or vapours leak detector.

Spillage of large quantity

Full protective, chemically resistant clothing in antistatic material. Antistatic safety shoes boots and slip-resistant. Goggles or protective devices for the face. In case the situation cannot be completely assessed, or if there is a risk of oxygen deficiency, use only SCBA.

6.2. Environmental precautions

Do not release the product into the environment. Prevent from entering into soil, ditches, sanitary sewers, waterways and/or groundwater. Avoid any spills and leaks.

6.3. Methods and material for containment and cleaning up

Ventilate/aerate the area/local.

Let the evaporation of the product.

Take into consideration that the vapours are heavier than air.

The spillage of liquid product in the water will be presumably in a rapid and complete evaporation.

Isolate the area and prevent the risk of fire / explosion for vessels and other structures, taking into consideration the direction and speed of the wind, until the complete dispersion of the product.

6.4. Reference to other sections

For more information, see section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Technical measures	The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Service technician must check regularly your entire gas system to ensure that it is leak-free. Do not smoke, eat or drink when handling product. Keep equipment free from oil and grease.
Safe handling	Use properly specified equipment which is suitable for this product, its supply pressure and temperature. Do not breathe gas. Contact your supplier if in doubt. The substance must be handled in accordance with good industrial hygiene and safety procedures. Refer to supplier's handling instructions.
	Do not allow back-feed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving containers, even for short distances, use appropriate equipment (trolley, hand truck, fork truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.



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Material safety data sheet according regulation (EU) 2020/818 Version 2 – Date: 18th May, 2021 (replaces version 1 - 12/2020)

	If user experiences any difficulty operating cylinder valve, discontinue use and contact the supplier.
	Damaged valves should be reported immediately to the supplier.
	Never attempt to repair or modify container valves or safety relief devices.
	Keep container valve outlets clean and free from contaminates particularly oil and water.
	Close container valve after each use and when empty, even if still connected to equipment.
	Never attempt to transfer gases from one container to another.
	Never use direct flame or electrical heating devices to raise the pressure of a container.
	Do not remove or deface labels provided by the supplier for the identification of the container contents.
	Suck back of water into the container must be prevented.
	Open valve slowly to avoid pressure shock.
Industrial hygiene	Ensure adequate ventilation of the working area.
	Do not drink, eat or smoke in the working area.

7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

Containers valve or caps should be in place.

Keep containers tightly closed in a dry, cool and well-ventilated place (below 50 °C), away from any ignition or heat sources. Keep away from combustible materials.

Store in original container.

7.3. Specific end use(s)

For professional and industrial use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propylene (CAS No. 115-07-1)		
Belgium	Limit value (ppm)	500 ppm
Denmark	Grænseværdi (langvarig) (mg/m ³)	172 mg/m ³
Denmark	Grænseværdi (langvarig) (ppm)	100 ppm
Denmark	Grænseværdi (langvarig) (mg/m ³)	344 mg/m ³
Denmark	Grænseværdi (langvarig) (ppm)	200 ppm
Finland	HTP-arvo (8h) (ppm)	500 ppm
Ireland	OEL (8 hours ref) (mg/m ³)	500 mg/m ³
Latvia	OEL TWA (mg/m³)	100 mg/m ³
Poland	NDS (mg/m ³)	2000 mg/m ³
Poland	NDSP (mg/m ³)	8600 mg/m ³
Spain	VLA-ED (ppm)	500 ppm
Switzerland	MAK (mg/m³)	10000 mg/m ³
Switzerland	MAK (ppm)	17500 ppm

Control methods (monitoring): Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts. Refer to relevant legislation and in any case to the good practice of industrial hygiene.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Before starting any operation in a confined space, carry out a proper recovery, control the atmosphere and the oxygen content and flammability.

8.2.2. Individual protection measures, such as personal protective equipment

A risk assessment should be conducted and documented in each work area to assess the risks related to use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected.



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a) Eye/face protection	Safety glasses with side-shields (according to directive EN 166).
b) Skin protection	
i) Hand protection	Thermal-protective gloves resistant to chemical products (EN 374). The penetration time of the gloves must be greater than the period of expected use. Gloves should be replaced immediately if they show signs of weat or deterioration.
ii) Other	Wear safety shoes while handling containers. Wear long-sleeved clothes. Remove or clean contaminated clothing. Apron or protective clothing are not necessary.
c) Respiratory protection	Mask filter for gases and vapours (EN141). To obtain an adequate protection, filter class you should choos according to the type and concentration of contaminants. The breathing apparatus with filters do not operat satisfactorily when the air contains high concentrations of vapours. In case of insufficient ventilation, weas self-contained breathing apparatus (EN529).



8.2.3. Environmental exposure controls

Handling in accordance with good industrial hygiene and safety practice. Prevent spillage or leakage of the product in watercourse or sewers (explosion danger). Avoid air emissions. No additional risk control measures may be needed (SDU7). For more information, see section 7 and 13.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	Physical state:	Gas
b)	Colour:	Colourless
c)	Odour:	Characteristic, olefin
d)	Melting point/freezing point:	- 185,25 °C @ 1 bar
e)	Boiling point or initial boiling point and boiling range:	- 47,70 °C @ 1 bar
f)	Flammability:	Not flammable
g)	Lower and upper explosion point:	n.a.
h)	Flash point:	Not applicable to gases and gas mixtures
i)	Auto-ignition temperature:	455 °C
j)	Decomposition temperature:	n.a.
k)	pH:	Not applicable to gases and gas mixtures
I)	Kinematic viscosity:	Not applicable to gases and gas mixtures
m)	Solubility (in water):	200 mg/l @ 25 °C
n)	Partition coefficient n-octanol/water (log value):	1,77 log Pow @ 20 °C
o)	Vapour pressure:	1,52 Gas (air=1)
		0,5139 Liquid (water=1)
р)	Density and/or relative density;	Not applicable to gases and gas mixtures
q)	Relative vapour density:	n.a.
r)	Particle characteristics:	Not applicable to gases and gas mixtures
9.2. Oth	er information	
	Molecular mass	42,08 g/mol
,	VOC content	≥ 90% (UE, CH, USA)

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal handling and storage conditions.

10.2. Chemical stability

Stable under normal handling and storage conditions.



10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions should not be produced. Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard.

10.4. Conditions to avoid

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Protect from sunlight and do not expose to temperatures exceeding 50° C.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can produce: toxic vapours.

SECTION 11: Toxicological information

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

a) acute toxicity	Not classified (conclusive but not sufficient data for classification).
Oral	LD50: > 2000 mg/kg (Propylene)
Dermal	Animal species: Rat No tests required as the substance is a flammable gas (REACH Annex XI, # 2) LD50: > 2000 mg/kg (Propylene) Animal species: Rat
Inhalation	No tests required as the substance is a flammable gas (REACH Annex XI, # 2) LC50: 10000 ppm (Propylene) (NOAEC) (NTP, 1985)
b) skin corrosion/irritation	Not classified (conclusive but not sufficient data for classification).
c) serious eye damage/irritation	Not classified (conclusive but not sufficient data for classification).
d) respiratory or skin sensitisation	Not classified (conclusive but not sufficient data for classification).
e) germ cell mutagenicity	Not classified (Conclusive but not sufficient for classification). (OECD 476) (McGregor et al, 1991) (OECD 471 – Ames test) (Inveresk Research, 2003)
f) carcinogenicity	Not classified (Conclusive but not sufficient for classification).
g) reproductive toxicity	Not classified (Conclusive but not sufficient for classification).
h) STOT-single exposure	Based on available data, the classification criteria are not met. May produce: CNS depression.
i) STOT-repeated exposure	Based on available data, the classification criteria are not met. On basis of test data: rat, inhalation. May produce: Loss of weight.
j) aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Exposure to high concentrations may cause asphyxiation as a consequence of oxygen deficiency. Contact with liquid may cause cold burns/frostbite. Likely routes of exposure: inhalation.



SECTION 12: Ecological information

12.1. Toxicity

Ecology – general Ecology – water:

Not harmful to aquatic organisms.

The product is a gas and is extremely unlikely to reside in the aquatic compartment.

Parameter	Result	Comments
Fish		Key study - Propylene
STEL	LC50 (96 h): 51,7 mg/l	QSAR, Nabholz et al., 2009
Fish	ChV (30 d): 51,7 mg/l	Key study - Propylene
STEL		QSAR, Nabholz et al., 2009
Aquatic invertebrates (Daphnia magna)	1000 (48 h); 28.2 mg/l	Key study - Propylene
STEL	LC50 (48 h): 28,2 mg/l	QSAR, Nabholz et al., 2009
Aquatic invertebrates (Daphnia magna)	(h)/(16 d) + 2.1 mg/l	Key study - Propylene
LTEL	ChV (16 d): 3,1 mg/l	QSAR, Nabholz et al., 2009
Algae	$F(F(0)) = \frac{1}{2} \int \frac{1}{2} $	Key study - Propylene
STEL	EC50 (96 h): 12,1 mg/l	QSAR, Nabholz et al., 2009

12.2. Persistence and degradability

Readily biodegradable (50%, 2.36 d, QSAR).

12.3. Bioaccumulative potential

log Pow	1.77
Possibility of bio-accumulation	Low bioaccumulation potential.

12.4. Mobility in soil

Product is easily volatile. No indication of bioaccumulation potential.

12.5. Results of PBT and vPvB assessment

According to the criteria in Annex XIII of the REACH Regulation, the substance is not classified PBT or vPvB.

12.6. Endocrine disrupting properties

n.a.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal consideration

13.1. Waste treatment methods

Product	Take all necessary measures to prevent the production of residuals, value the possible methods of regeneration or recycling.
	In case of disposal, the substance as such, pursuant to Directive 2008/98/EC, must be classified as hazardous waste: *HP3 –
	Flammable (Hazard Property Codes). Do not discharge into drains or environment.
Packaging	Reuse and recycle the packaging after its reclaim. Flammable vapours may accumulate in the container. Dispose of empty,

Disposal method Refer to the EIGA Practice Code (Doc. 30 "Gas Disposal", downloadable from http://www.eiga.org) for better guidance on the

disposal method available. Contact the supplier for the correct disposal of the container. Discharging, treatment or disposal may by subject to national, state or local regulations.

*HP3 – Flammable: - Flammable liquid waste: liquid waste having a flash point below 60° C or waste gas oil, diesel and light heating oils having a flash point > 55°C and \leq 75°C; - Flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; - Flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; - Flammable gaseous waste: gaseous waste which is flammable in air at 20°C and a standard pressure of 101.3 kPa; - Water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; - Other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste

European Waste Code (EWC)

Product 16 05 04* Gases in pressure containers (including halons) containing dangerous substances.

Packaging 15 01 11* Metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers.



SECTION 14: Transport information
14.1. UN number or ID number
ADR-RID-ADN-IMDG-ICAO UN 1077
14.2. UN proper shipping name
ADR-RID-ADN-IMDG-ICAO PROPYLENE
14.3. Transport hazard class(es)
ADR-RID-ADN: 2
IMDG-ICAO: 2.1
Label: 2
Additional information
Tunnel restriction code (ADR) B/D
EmS (IMDG) F-D, S-U
14.4. Packing group
ADR-RID-ADN-IMDG-ICAO n.a.
14.5. Environmental hazards
Dangerous for the environment NO
Marine pollutant NO
14.6. Special precautions for user

The transport, including loading and unloading, must be carried out by persons who have received appropriate training concerning required by the modal regulations.

Road transport must be carried out by vehicles authorized for the transport of dangerous goods in accordance with the requirements of the current edition of the ADR Agreement and the applicable national provisions. Avoid transport on vehicles where the load space is not separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Ensure that containers are firmly secured.

Ensure there is adequate ventilation.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Substance registered Regulation (EC) No 1907/2006 (REACH), Annex XIV (Substances in the Candidate List for authorization): Not included

Regulation (EC) No 1907/2006 (REACH), Annex XVII (Restrictions on the manufacturing, marketing and use of certain dangerous substances and preparations): Not included

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer, Annex I and II: Not included

Regulation (EC) No 649/2012 concerning the export and import of hazardous chemicals (PIC): Not included

Regulation (EU) No 517/2014 on fluorinated greenhouse gases (F-GAS): Propylene (GWP 2)

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

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances - Seveso III: Included (P2) Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work: Not included Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work: Not included Directive 92/85/EC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Directive 2003/105/EC on the control of major-accident hazards involving dangerous substances.

National standards

Adoption of National legislation on working with chemical agents.

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (Directive 2012/18/CE). National adoption of EU Directives concerning health and safety on the workplace. Relevant national laws (National adoption of Directive 92/85/EEC).

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15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This Material Safety Data Sheet has been made according European Directive in force.

Text of hazard (H) and precautionary (P) statements in the section 2 and 3

H220 Extremely flammable gas

- H280 Contains gas under pressure; may explode if heated.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P377 Leaking gas fire do not extinguish unless leak can be stopped safely.
- P381 Eliminate all ignition sources if safe to do so.
- P403 Store in a well-ventilated place.

Text of "Hazard Class and Category Code" in section 2 and 3, according to Regulation (EC) No 1272/2008

- Flam. Gas 1 Flammable gas Category 1
- Press. Gas (Liq.) Pressurized gas : Liquefied gas

History Version 2 Version 1 Revision date: 05/2021 Date: 12/2020

b) Abbreviations and acronyms

ADN	Agreement Dangerous goods by inland waterways
ADR	Accord Dangerous Route
AMES (Test)	Ames Bruce (Test for determining if the chemical is mutagens)
CAS	Chemical Abstracts Service number
CE / EC	European Community
ChV	Chronic Values
CLP	Classification, Labelling, Packaging
CNS	Central Nervous System
EC50	Half maximal Effective Concentration
EIGA	European Industrial Gases Association
EmS	Emergency Schedule
EWC	European Waste Code
GHS	Globally Harmonised System
LC50	Half maximal Lethal Concentration
LD50	Half maximal Lethal Dose
LEL	Lower Explosive Limit
Log Pow (Kow)	Logarithm Partition coefficient n-Octanol/water
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods code
IMO	International Maritime Organization
n.a.	not applicable / not available
NOAEC	No Observed Adverse Effect Level
NTP	National Toxicology Program
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bio-accumulative Toxic
PPE	Personal Protective Equipment
QSAR	Quantitative Structure–Activity Relationship
RID	Rail International Dangerous goods transport
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short Term Exposure Limit
STOT-RE	Specific Target Effect Concentration - repeated exposure
STOT-SE	Specific Target Effect Concentration - single exposure
TWA	Time Weighted Average
UE / EU	European Union



UEL	Upper Exposure Limit (Limite superiore di esplosione)
VOC	Volatile Organic Compounds
vPvB	very Persistent very Bioaccumulative

Notice of liability

This information should not constitute a guarantee for any specific product properties. This information are only a guidance for safe handling, use, processing, storage, transportation, disposal and release and are not to be considered a warranty or a quality specification.

The information contained in this safety data sheet are based on our current knowledge and EU and national laws; they describe the product only with regard to safety requirements. The conditions of the user are beyond our knowledge and control. The product should not be used for purpose other than those specified. It is always the responsibility of the user to take all the necessary measures to comply with the requirements of current legislation. The information contained in this form should not considered as a guarantee of its properties.