

# Safety data sheet

Page 1/10

according to 1907/2006/EC, Article 31

Printing date 01.07.2021 Revision: 01.07.2021 Version number 13.01 (replaces version 13.00)

SECTION 1: Identification of the substand undertaking	e/mixture and of the company/
· 1.1 Product identifier	
· Trade name: <u>methanol</u>	
<ul> <li>Article number: 1091</li> <li>CAS Number: 67-56-1</li> <li>EC number: 200-659-6</li> <li>Index number: 603-001-00-X</li> <li>Application of the substance / the mixture Laboratory ch</li> </ul>	nemicals
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: PANREAC QUIMICA S.L.U.</li> <li>C/Garraf 2</li> <li>Polígono Pla de la Bruguera</li> <li>E-08211 Castellar del Vallès (Barcelona)</li> </ul>	Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com
<ul> <li>Further information obtainable from: email: product.safe</li> <li>1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499</li> </ul>	ety@panreac.com
SECTION 2: Hazards identification	
<ul> <li>• 2.1 Classification of the substance or mixture</li> <li>• Classification according to Regulation (EC) No 1272/20</li> <li>Flam. Liq. 2 H225 Highly flammable liquid and vapour.</li> <li>Acute Tox. 3 H301 Toxic if swallowed.</li> <li>Acute Tox. 3 H311 Toxic in contact with skin.</li> <li>Acute Tox. 3 H331 Toxic if inhaled.</li> </ul>	08

STOT SE 1 H370 Causes damage to the central nervous system and the visual organs.

### · 2.2 Label elements

## · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

.

(Contd. of page 1)

Hazard pictog	Irams
GHS02 GHS	506 GHS08
Signal word D	Janger
Hazard staten	•
H225	Highly flammable liquid and vapour.
	I331 Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to the central nervous system and the visual organs.
Precautionary	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
2.3 Other haza	ards
<b>Results of PB</b>	T and vPvB assessment
PBT: Not appli	icable.

- · vPvB: Not applicable.

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

- · 3.1 Substances
- · CAS No. Description
- 67-56-1 methanol
- · Identification number(s)
- · EC number: 200-659-6
- · Index number: 603-001-00-X

## **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

- · After inhalation:
- Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

If breathing stops: mouth-to-mouth respiration or mechanical ventilation, oxygen mask if necessary. Immediately call a physician.

#### · After skin contact:

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

(Contd. on page 3)

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Mentioning methanol ingestion.

## **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

- Suitable extinguishing agents:
  - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Carbon monoxide and carbon dioxide Combustible. Forms explosive mixtures with air at ambient temperatures. Formaldehyde Vapours ara heavier than air and may spread along floors. Beware of backfiring.

- 5.3 Advice for firefighters
- **Protective equipment:** Mouth respiratory protective device. Wear self-contained respiratory protective device.
- Wear fully protective suit. • Additional information Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

## **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Avoid substance contact. Do not inhale steams/aerosols. · 6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Clean up affected area. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

 7.1 Precautions for safe handling Keep receptacles tightly sealed.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

(Contd. on page 4)

(Contd. of page 2)

GB

Printing date 01.07.2021 Revision: 01.07.2021 Version number 13.01 (replaces version 13.00)

#### Trade name: methanol

	(Contd. of page
Information about fire - and explosion protection:	
Keep ignition sources away - Do not smoke.	
Protect from heat.	
Protect against electrostatic charges.	
Keep respiratory protective device available.	
7.2 Conditions for safe storage, including any incompatibilities	
Storage:	
Requirements to be met by storerooms and receptacles: Store in a cool	l location.
Information about storage in one common storage facility:	
Away from sources of ignition and heat.	
Further information about storage conditions:	
This product is hygroscopic.	
Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.	
Protect from heat and direct sunlight.	
Open receptacle only under localised extractor facilities.	
Store receptacle in a well ventilated area.	
Store only outside or in explosion proof rooms.	
Store under lock and key and with access restricted to technical experts or t	their assistants only.
Accesible for authorised persons only.	2
Recommended storage temperature: Room Temperature	
Storage class: 3	
7.3 Specific end use(s) No further relevant information available.	
SECTION 9. Exposure controls/personal protection	
SECTION 8: Exposure controls/personal protection	
8.1 Control parameters	
Ingredients with limit values that require monitoring at the workplace:	
67-56-1 methanol	

WEL	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 266 mg/m³, 200 ppm

Sk				
DNELs				
Oral	Acute - systemic effects, general popula	tion	5 mg/kg	
	Long-term - systemic effects, general population		5 mg/kg	
Dermal	Dermal Acute - systemic effects, worker		20 mg/kg	
	Long-term - systemic effects, worker		20 mg/kg	
	Acute - systemic effects, general popula	tion	5 mg/kg	
	Long term - systemic effects, general po	pulation	5 mg/kg	
Inhalative	Acute - local effects, worker		130 mg/m3	
	Acute - systemic effects, worker		130 mg/m3	
	Long-term - systemic effects, worker		130 mg/m3	
	Long-term - local effects, worker		130 mg/m3	
	Acute - systemic effects, general population		26 mg/m3	
	Acute - local effects, general population Long-term - systemic effects, general population Long-term - local effects, general population		26 mg/m3	
			26 mg/m3	
			26 mg/m3	
PNECs				
Aquatic compartment - freshwater 20.8 r		20.8 mg	g/L	
Aquatic compartment - marine water 2.08		2.08 mg	g/L	
Aquatic compartment - water, intermittent releases 1,5		1,540 m	ng/L	
Aquatic co	mpartment - sediment in freshwater	77 mg/k	(g	
			(Con	td. on page

<sup>-</sup> GB

		(Contd. of page 4)
	strial compartment - soil	100 mg/kg
	ge treatment plant	100 mg/L
· Addit	ional information: The lists valid during the	making were used as basis.
<ul> <li>8.2 Ex</li> <li>Appro</li> <li>Indivi</li> <li>Gene</li> <li>Keep</li> <li>Imme</li> <li>Wash</li> <li>Store</li> <li>Avoid</li> <li>Resp</li> <li>In cas</li> <li>expos</li> <li>Short</li> <li>Filter</li> </ul>	Apposure controls opriate engineering controls No further data idual protection measures, such as person ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated con hands before breaks and at the end of work protective clothing separately. contact with the eyes and skin. iratory protection: se of brief exposure or low pollution use resource use self-contained respiratory protective term filter device:	a; see item 7. <b>nal protective equipment</b> lothing spiratory filter device. In case of intensive or longer
prepa Selec degra Mater The s quality Pene The e has to For th Butyl Recon Value As pr Recon Fluoro Value	ration. tion of the glove material on consideration dation rial of gloves election of the suitable gloves does not only y and varies from manufacturer to manufactu tration time of glove material	ut by the manufacturer of the protective gloves and following materials are suitable: n e following materials are suitable: n
SEC	TION 9: Physical and chemical pro	perties
• 9.1 In	formation on basic physical and chemical rail	•
	ical state	Fluid
Colou		Colourless
· Odou		Alcohol-like
	r threshold:	Not determined.
	ng point/freezing point: ng point or initial boiling point and boiling	-98 °C
range	•••••••••••••••••••••••••••••••••••••••	64.7 °C
	, mability	Not applicable.
	•	(Contd. on page 6)
		GB

Page 6/10

Trade name: methanol

	(Contd. of pag
Lower and upper explosion limit	
Lower:	5.5 Vol %
Upper:	44 Vol %
Flash point:	10 °C
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Neutral
	INCULIA
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	0.597 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log val	l <b>ue)</b> -0.77211
Vapour pressure at 20 °C:	128 hPa
Density and/or relative density	
Density at 20 °C:	0.792 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
• •	
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of hea	alth
and environment, and on safety.	
Ignition temperature:	455 °C
Explosive properties:	Product is not explosive. However, formation
Explosive properties.	
Solvent contents	explosive air/vapour mixtures are possible.
Solvent content:	100.0/
VOC (EC)	100 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haz	ard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	
	Void
Oxidising gases	Void
Gases under pressure	Void
Gases under pressure Flammable liquids	Highly flammable liquid and vapour.
Gases under pressure Flammable liquids Flammable solids	Highly flammable liquid and vapour. Void
Gases under pressure Flammable liquids	Highly flammable liquid and vapour.
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Highly flammable liquid and vapour. Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Highly flammable liquid and vapour. Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Highly flammable liquid and vapour. Void Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Highly flammable liquid and vapour. Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Highly flammable liquid and vapour. Void Void Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Highly flammable liquid and vapour. Void Void Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Highly flammable liquid and vapour. Void Void Void Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Highly flammable liquid and vapour. Void Void Void Void Void Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides	Highly flammable liquid and vapour. Void Void Void Void Void Void Void Void
Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Highly flammable liquid and vapour. Void Void Void Void Void Void Void Void

# **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

(Contd. on page 7)

Page 7/10

Trade name: methanol (Contd. of page 6) · 10.2 Chemical stability · Thermal decomposition / conditions to be avoided: Visible decomposition with spontaneous ignition on heating. · 10.3 Possibility of hazardous reactions Reacts with oxidising agents. Danger of explosion. Forms explosive gas mixture with air. • 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: Varios plastics oxidizing agent • 10.6 Hazardous decomposition products: In the event of fire: See chapter 5 · Additional information: hygroscopic **SECTION 11: Toxicological information** · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 · Acute toxicity Toxic if swallowed, in contact with skin or if inhaled. · LD/LC50 values relevant for classification: · Components Value Type **Species** Oral LD50 100 mg/kg (rat) LD50 300 mg/kg (rabbit) Dermal Inhalative LC50/4 h 3 mg/l (rat) · Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. • Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. · Reproductive toxicity NOAEL (Fertility) 0.13 mg/kg bw/day (rat) STOT-single exposure Causes damage to the central nervous system and the visual organs. • STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met. Additional toxicological information: · Repeated dose toxicity Inhalative NOAEL 1.06 mg/l (rat) 11.2 Information on other hazards · Endocrine disrupting properties Substance is not listed. SECTION 12: Ecological information · 12.1 Toxicity

· Aquatic toxicity:		
· Type of te	t Effective concentration Method Assessment	
EC50/48 h	>10,000 mg/l (daphnia magna)	
EC50/96 h	12,000 mg/l (Crustacea)	
LC50/96 h	15,400 mg/l (fish)	
	tence and degradability No further relevant information available.	
	cumulative potential -0.77 log Pow	
· 12.4 Mobil	ty in soil No further relevant information available.	
		(Contd. on page 8)
		GB

Printing date 01.07.2021 Revision: 01.07.2021 Version number 13.01 (replaces version 13.00)

Trade name: methanol

#### · 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Danger to drinking water if even small quantities leak into the ground.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

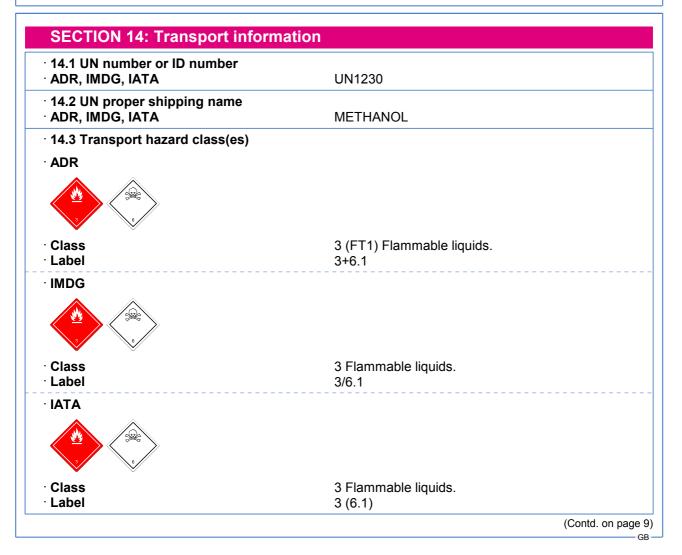
#### · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

#### Recommendation:

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.



(Contd. of page 7)

	(Contd. of pag
14.4 Packing group ADR, IMDG, IATA	11
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code	Warning: Flammable liquids. 336 F-E,S-D B SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1230 METHANOL, 3 (6.1), II

## **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is listed.
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 500 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 5,000 t
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) (Contd. on page 10)

GB

Page 10/10

Printing date 01.07.2021 Revision: 01.07.2021 Version number 13.01 (replaces version 13.00)

#### Trade name: methanol

(Contd. of page 9)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 · \* Data compared to the previous version altered.

#### Annex: Exposure scenario

- Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures
   Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure Avoid contact with the skin.
- Do not breathe gas/vapour/aerosol.
- Take precautionary measures against static discharge.
- Keep away from sources of ignition No smoking.
- Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures
- Provide explosion-proof electrical equipment.
- Ensure that suitable extractors are available on processing machines
- · Personal protective measures
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the skin.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- Short term filter device:
- Filter AX
- Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Measures for consumer protection Ensure adequate labelling.
- · Environmental protection measures
- · Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures
- Must not be disposed together with household garbage. Do not allow product to reach sewage system. **Waste type** Partially emptied and uncleaned packaging
- Exposure estimation
- **Consumer** Not relevant for this Exposure Scenario.
- $\cdot$  Guidance for downstream users No further relevant information available.