

# Safety data sheet

according to 1907/2006/EC, Article 31

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Printing date 23.07.2020 Revision: 23.07.2020 Version number 13

SECTION 1: Identification of the substance/mixture and of t	he company/
undertaking	
· 1.1 Product identifier	
<sup>·</sup> Trade name: <u>2-Propanol</u>	
· Article number: 1090	
· CAS Number:	
67-63-0	
EC number:	
200-661-7	
· Index number:	
603-117-00-0 • <b>Registration number</b> 01-2119457558-25-XXXX	
• 1.2 Relevant identified uses of the substance or mixture and uses advised agai	nst
· Sector of Use	
SU3 Industrial uses: Uses of substances as such or in preparations at industrial site	S
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)	-
SU9 Manufacture of fine chemicals	
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	
Product category	
PC1 Adhesives, sealants	
PC3 Air care products PC4 Anti-Freeze and de-icing products	
PC4 Anti-Freeze and de-icing products PC8 Biocidal products	
PC9a Coatings and paints, thinners, paint removers	
PC9b Fillers, putties, plasters, modelling clay	
PC9c Finger paints	
PC12 Fertilisers	
PC15 Non-metal-surface treatment products	
PC16 Heat transfer fluids	
PC17 Hydraulic fluids	
PC18 Ink and toners PC23 Leather treatment products	
PC24 Lubricants, greases, release products	
PC27 Plant protection products	
PC28 Perfumes, fragrances	
PC31 Polishes and wax blends	
PC34 Textile dyes, and impregnating products	
PC35 Washing and cleaning products (including solvent based products)	
PC36 Water softeners	
PC37 Water treatment chemicals PC38 Welding and soldering products, flux products	
PC39 Cosmetics, personal care products	
	(Contd. on page 2)

#### Trade name: 2-Propanol

(Contd. of page 1)
<ul> <li>Process category</li> <li>PROC1 Chemical production or refinery in closed process without likelihood of exposure or</li> </ul>
processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled
exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with
occasional controlled exposure or processes with equivalent containment condition PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes
PROC6 Calendering operations
PROC7 Industrial spraying
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including
weighing)
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC12 Use of blowing agents in manufacture of foam PROC13 Treatment of articles by dipping and pouring
PROC14 Tabletting, compression, extrusion, pelletisation, granulation
PROC15 Use as laboratory reagent
PROC16 Use of fuels
PROC17 Lubrication at high energy conditions in metal working operations PROC18 General greasing /lubrication at high kinetic energy conditions
PROC19 Manual activities involving hand contact
PROC20 Use of functional fluids in small devices
PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
Environmental release category ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC3 Formulation into solid matrix
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC5 Use at industrial site leading to inclusion into/onto article
ERC6a Use of intermediate ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or
not into/onto article)
ERC7 Use of functional fluid at industrial site
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) ERC8f Widespread use leading to inclusion into/onto article (outdoor)
ERC9a Widespread use of functional fluid (indoor)
ERC9b Widespread use of functional fluid (outdoor)
Application of the substance / the mixture
Molecular biology Biochemistry
Chemical analytics
Laboratory chemical
$\cdot$ 1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
PANREAC QUIMICA S.L.U. Tel. (+34) 937 489 400
C/Garraf 2 Fax. (+34) 937 489 401
Polígono Pla de la Bruguera e-mail: product.safety@panreac.com E-08211 Castellar del Vallès (Barcelona)
<ul> <li>Further information obtainable from: email: product.safety@panreac.com</li> <li>1.4 Emergency telephone number:</li> </ul>
Single telephone number for emergency calls: 112 (EU)
Tel.: (+34) 937 489 499
GB

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Trade name: 2-Propanol

(Contd. of page 2)

SECTION 2	2: Hazards identification
	tion of the substance or mixture
	n according to Regulation (EC) No 1272/2008
	1225 Highly flammable liquid and vapour.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3 F	1336 May cause drowsiness or dizziness.
2.2 Label eler	
	cording to Regulation (EC) No 1272/2008
	e is classified and labelled according to the CLP regulation.
Hazard picto	grams
< (%) < [	
GHS02 GH	\$07
Signal word	
Hazard stater	
	ammable liquid and vapour.
	serious eye irritation.
Precautionar	use drowsiness or dizziness.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
F210	sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
. 200	protection.
P303+P361+F	2353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse ski
	with water [or shower].
P305+P351+F	2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national international regulations.
2.3 Other haz	
	and s 3T and vPvB assessment
PBT: Not app	
vPvB: Not ap	

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

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 67-63-0 2-Propanol
- Identification number(s) · EC number: 200-661-7
- · Index number: 603-117-00-0

# **SECTION 4: First aid measures**

## • 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately rinse with water.

Immediately remove any clothing soiled by the product.

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#### Trade name: 2-Propanol

(Contd. of page 3) • After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing:

make victim drink water (maximum of 2 drinking glasses) Risk of aspiration!

Do not induce vomiting; call for medical help immediately.

- **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** No further relevant information available.

# **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. Vapours ara heavier than air and may spread along floors. Beware of backfiring.
  5.3 Advice for firefighters
  Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
- Additional information 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 Avoid substance contact. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep ignition sources away - Do not smoke. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Avoid substance contact. Do not inhale steams/aerosols.
  6.2 Environmental precautions: 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). 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

Avoid generation of vapours/aerosols.

- Keep receptacles tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

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## Trade name: 2-Propanol (Contd. of page 4) Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Store in a cool location. · Information about storage in one common storage facility: Away from sources of ignition and heat. • Further information about storage conditions: 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 their assistants only. · Recommended storage temperature: < +20°C · Storage class: 3 · 7.3 Specific end use(s) No further relevant information available. **SECTION 8: Exposure controls/personal protection** · Additional information about design of technical facilities: No further data; see item 7. · 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: 67-63-0 2-Propanol WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm

Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

#### · DNELs

Oral Long-term - systemic effects, general population 26 mg	J/kg
Dermal Long-term - systemic effects, worker 888 m	ıg/kg
Long term - systemic effects, general population 319 m	ig/kg
Inhalative Long-term - systemic effects, worker 500 m	ıg/m3
Long-term - systemic effects, general population 89 mg	J/m3

· PNECs

Aquatic compartment - freshwater	140.9 mg/L
Aquatic compartment - marine water	140.9 mg/L
Aquatic compartment - sediment in freshwater	552 mg/kg
Aquatic compartment - sediment in marine water	552 mg/kg
Terrestrial compartment - soil	28 mg/kg
· Additional information: The lists valid during the	e making were used as basis.

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

# Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed. Filter A

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#### • Protection of hands:



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

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- Recommended thickness of the material:  $\geq 0.4~\text{mm}$
- Value for the permeation: Level  $\geq$  480 min
- As protection from splashes gloves made of the following materials are suitable: Chloroprene rubber, CR
- Recommended thickness of the material:  $\geq$  0.65 mm
- Value for the permeation: Level  $\geq$  120 min
- Eye protection:



Tightly sealed goggles

#### · Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

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

<ul> <li>9.1 Information on basic physical and c</li> <li>General Information</li> </ul>	hemical properties
· Appearance:	
Form:	Fluid
Colour:	Colourless
· Odour:	Alcohol-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	-89.5 °C
Initial boiling point and boiling range:	82 °C
· Flash point:	12-13 °C
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	2 Vol %
Upper:	13.4 Vol %
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	(Contd. of page 6
Vapour pressure at 20 °C:	43 hPa
Density at 20 °C:	0.785 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	0.04999286
Viscosity:	
Dynamic at 20 °C:	2.43 mPas
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity
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#### · 10.1 Reactivity

Reacts with strong oxidising agents. Reacts with strong acids.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

Warming. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

- 10.3 Possibility of hazardous reactions
- Forms explosive gas mixture with air.

Explosive reaction with oxidising agents such as calcium chlorate and or peroxides.

- · 10.4 Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.
- 10.5 Incompatible materials:

Explosive reaction with oxidising agents such as calcium chlorate and or peroxides. strong acids strong oxidants

aluminium

- alkali metals
- Amines iron

• 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

# **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
   Components
   Type
  Value

· Components	Гуре	Value	Species
Oral LD50 >2,000 n	ng/kg (rat)		
Dermal LD50 >2,000 n	ng/kg (rabbit)		
Primary irritant effect:			

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.

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#### Reproductive toxicity

NOAEL (Fertility) 46.5 mg/kg bw/day (rat)

Based on available data, the classification criteria are not met.

- · STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot$  Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

• Type of test Effective concentration Method Assessment

EC50/72 h >100 mg/l (Algae)

EC50/48 h >100 mg/l (daphnia magna)

LC50/8 h >20 mg/l (rat) Inhalative

LC50/48 h >100 mg/l (fish)

• 12.2 Persistence and degradability Easily biodegradable

- · 12.3 Bioaccumulative potential 0.05 log Pow
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

#### · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

# **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.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

# **SECTION 14: Transport information**

· 14.1 UN-Number · ADR, IMDG, IATA

- UN1219
- 14.2 UN proper shipping name
   ADR, IMDG, IATA

ISOPROPANOL (ISOPROPYL ALCOHOL)

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Trade name: 2-Propanol

	(Contd. of pag
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
$\mathbf{V}$	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids. 33
EMS Number:	F-E,S-D
Stowage Category	В
14.7 Transport in bulk according to Annex II o	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
LACEPTEN quantities (LQ)	Maximum net quantity per inner packaging: 30 m
	Maximum net quantity per outer packaging: 500 r
Transport category Tunnel restriction code	
	D/E
IMDG Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 m
	Maximum net quantity per outer packaging: 500 r
UN "Model Regulation":	UN 1219 ISOPROPANOL (ISOPROP)
	ALCOHOL), 3, 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 not listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

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Trade name: 2-Propanol

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• 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 européen sur le transport 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) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\*\* Data compared to the previous version altered.

#### Annex: Exposure scenario

· Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures

#### Sector of Use

- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
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SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

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#### Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

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PROC2 Chemical production or refinery in closed continuous process with occasional controlled
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PROC18 General greasing /lubrication at high kinetic energy conditions
PROC19 Manual activities involving hand contact PROC20 Use of functional fluids in small devices
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ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or
not into/onto article)
ERC7 Use of functional fluid at industrial site
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor) ERC9a Widespread use of functional fluid (indoor)
ERC9b Widespread use of functional fluid (indoor)
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.
• Used amount per time or activity $\leq 1$ tons per day
· Other operational conditions
Other operational conditions affecting environmental exposure No special measures required.
Other operational conditions affecting worker exposure
Avoid contact with eyes.
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking. Indoor application.
Outdoor application.
• Other operational conditions affecting consumer exposure No special measures required.
Other operational conditions affecting consumer exposure during the use of the product
Not applicable.
(Contd. on page 12)

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	(Contd. of page 11
· 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 eyes.	
Tightly sealed goggles	
• 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 r	reach sewage system
· Waste type Partially emptied and uncleaned packaging	0,
• Exposure estimation	
• <b>Consumer</b> Not relevant for this Exposure Scenario.	
• Guidance for downstream users No further relevant information available.	
	GB