



Gert Strand AB

Refined Propranolol 99,5 %

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 4/26/2017

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

1.1. Product identifier

Product form	Substance
Trade name	Refined Propranolol 99,5 %
Chemical name	Propranolol
EC-No.	200-289-5
CAS-No.	56-81-5

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

1.2.1. Relevant identified uses

Use of the substance/mixture Raw material: Chemical industries, Manufacturing of food

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Gert Strand AB
Svarvaregatan 3
23351 Svedala
F +46-40-183025

1.4. Emergency telephone number

Emergency number Check local authority

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Propranolol	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	99.5

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation Move to fresh air. Get medical advice/attention if you feel unwell.



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First-aid measures after skin contact	Remove dirty clothes. Wash with plenty of soap and water.
First-aid measures after eye contact	Rinse eyes with water as a precaution. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	Spit. Rinse mouth. Drink plenty of water. Do not induce vomiting. If you feel unwell, seek medical advice.

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

Symptoms/effects after ingestion : Gastrointestinal pain. Headache. Vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Thermal decomposition generates toxic vapours. Corrosive vapours. acrylaldehyde; acrolein; prop-2-enal.

5.3. Advice for firefighters

Firefighting instructions	Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
Other information	Cool closed containers exposed to fire with water spray. Contain the spreading of extinguishing fluids (this product may be hazardous for the environment).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use protective clothing. Remove ignition sources. Ensure adequate air ventilation

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.
Emergency procedures : Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment : Wear personal protective clothing (see chapter 8)

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, saw dust.
Other information : Shovel into suitable and closed container for disposal.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from sources of ignition- No smoking. Do not breathe vapours.
Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Store at room temperature. Keep away from heat and direct sunlight.
Information about storage in one common storage facility : Keep away from strong oxidizers.
Packaging materials : plastic. Polyethylene (high density). Aluminium. Uncoated stainless steel.

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7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propantriol (56-81-5)		
United Kingdom	Local name	Propantriol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ mist

Propantriol (56-81-5)	
DNEL/DMEL (WorkerS)	
Long-term - local effects, inhalation	56 motm*
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	229 mg/kg bodyweight/day
Long-term - local effects, inhalation	33 motm*
PNEC (Water)	
PNEC aqua (freshwater)	0.885 mg/l
PNEC aqua (marine water)	0.088 mg/l
PNEC aqua (intermittent, freshwater)	8.85 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.3 mg/kg dwt
PNEC sediment (marine water)	0.33 mg/kg dwt
PNEC (Soil)	
PNECsoil	0.141 mg/kg dwt
PNEC (STPI)	
PNEC sewage treatment plant	1000 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Wash hands before break and at end of works.

Hand protection:

In case of repeated or prolonged contact wear gloves. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,35	No additional information available	EN 374
Chemically resistant protective gloves	Butyl rubber	6 (> 480 minutes)	0,5	No additional information available	EN 374

Eye protection:

Chemical goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection. Breathing apparatus needed only when vapour or mist is formed. Filter type: A.

Environmental exposure controls:

Avoid release to the environment

Other information:

Do not eat, drink or smoke during use. Separate working clothes from town clothes. Launder separately.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Viscous.
Colour	colourless.
Odour	odourless.
Odour threshold	No data available

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pH	Neutral
Relative evaporation rate (butylacetate=1)	No data available
Melting point	-18 °C
Freezing point	No data available
Boiling point	290 °C
Flash point	199 °C (closed cup)
Auto-ignition temperature	370 °C
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	0.0025 mm Hg (50°C)
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.26 g/cm ³ (20°C)
Solubility	Water: 1000 g/l (25°C) Ethanol: Miscible
Log Pow	No data available
Log Kow	-1.76
Viscosity, kinematic	No data available
Viscosity, dynamic	1412 mPas (20°C; (OECD 114 method))
Explosive properties	Product is not explosive. In use, may form flammable/explosive vapour-air mixture.
Oxidising properties	No data available
Lower explosive limit (LEL)	2.7 Vol %
Upper explosive limit (UEL)	19 vol%
9.2. Other Information	
Other properties	Surface tension. -63,4 mN/m.

SECTION 10: Stability and reactivity

- 10.1. Reactivity
No additional information available.
- 10.2. Chemical stability
No decomposition if stored normally.
- 10.3. Possibility of hazardous reactions
Reacts vigorously with strong oxidizers and acids.
- 10.4. Conditions to avoid
No additional information available.
- 10.5. Incompatible materials
Oxidizing agent. Strong acids.
- 10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Acute toxicity Not classified (Based on available data, the classification criteria are not met)

Propantriol (56-81-5)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 oral	> 23000 mg/kg (Maus, male)
LC50 inhalation rat (Vapours - mg/l/4h)	> 2.75 mg/l/4h

Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met) pH: Neutral
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) pH: Neutral
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)

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STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)

Propantriol (56-81-5)	
Viscosity, kinematic	1120.63 mm ² /s

SECTION 12: Ecological information

12.1. Toxicity

Propantriol (56-81-5)	
LC50 fish 1	54000 mg/l (96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	1955 µg/l (48 h; Daphnia magna)

12.2. Persistence and degradability

Propantriol (56-81-5)	
Persistence and degradability	Readily biodegradable
Biodegradation	94 % (24 h)

12.3. Bioaccumulative potential

Propantriol (56-81-5)	
Log Kow	-1.76
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Propantriol (56-81-5)	
Surface tension	≈ 63.4 mN/m (20°C)
Ecology - soil	No additional information available.

12.5. Results of PBT and vPvB assessment

Propantriol (56-81-5)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	Disposal must be done according to official regulations. European waste catalogue.
Product/Packaging disposal recommendations	Avoid release to the environment. Do not re-use empty containers without proper cleaning or reconditioning.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport
Not applicable

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- Transport by sea

Not applicable

-Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

glycerol is not on the REACH Candidate List

glycerol is not on the REACH Annex XIV List

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
7	General revision		
	Handling and storage	Modified	

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

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KFT SDS EU05

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only, it should not therefore be construed as guaranteeing any specific property of the product