(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Tramadol

Product Number

67

Chemical Name:

(±)-cis-2-[(Dimethylamino)methyl]-1-(3-

methoxyphenyl) cyclohexanol hydrochloride;

OR

(1RS,2SR)-2-[(Dimethylamino) methyl]-1-(m-methoxyphenyl) cyclohexanol hydrochloride.

Trade name:

Tramadol

CAS No.:

36282-47-0

EINECS No.:

No information available

REACH Registration

No information available

No.:

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

Identified use(s):

Pharmaceutical Product: Analgesic

1.3 Details of the supplier of the Safety Data Sheet

Company Identification:

Sun Pharmaceutical Industries Ltd.

Ahmednagar, Maharashtra state, India.

1.4 Telephone:

91-(0241) 2777329 / 330 / 359

Fax:

(0241) 2777231

E-Mail:

api@sunpharma.com

2. HAZARD IDENTIFICATION

2.1 Classification of the

According to Regulation (EC) No. 1272/2008

substance or mixture

(CLP):
Acute toxicity, oral Category 3

STOT, single exposure Category 3 narcotic

effectsSpecific target organ toxicity, repeated

exposure Category 1

According to Directive 67/548/EEC & Directive

1999/45/EC:

2.2.1 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

Hazard pictogram(s):





Signal word(s):

Hazard statement(s):

Danger

H302:Harmful if swallowed.

H317:May cause an allergic skin reaction. H334:May cause allergy or asthma symptoms

or breathing difficulties if inhaled. H340:May cause genetic defects.

H350:May cause cancer.

H360:May damage fertility or the unborn child. H372: Causes damage to organs (bone marrow)

through prolonged or repeated exposure

Precautionary statement(s):

P264: Wash skin thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312: IF SWALLOWED: Call a doctor/physician if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty

of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P308 + P313: If exposed or concerned: Get

medical advice/attention.

P332+P313: IF SKIN irritation occurs: Get

medical advice/attention.

P337+P313: IF eye irritation persists: Get

medical advice/attention.

P501: Dispose of contents in accordance with

local, state or national legislation.

2.2.2 Label elements

According to Directive 67/548/EEC & Directive

1999/45/EC

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

Hazard pictogram(s):

Hazard Symbol:

Risk Phrases:

No information available

No information available

R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R40: Limited evidence of a carcinogenic effect. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R63: Possible risk of harm to the unborn child.

Safety Phrases:

S22: Do not breathe dust.

S24/25: Avoid contact with skin and eyes. S36/37: Wear suitable protective clothing and

S61: Avoid release to the environment. Refer to

special instructions/Safety Data Sheets.

2.3 Other hazards No information available

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	EC No.	REACH Registration No.	Hazard symbol(s) and hazard statement(s)
Tramadol	100	-	-	See section 2.

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Tramadol	100	-	-	See section 2.

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



Page: 4 OF 10

TRAMADOL HYDROCHLORIDE

4. FIRST AID MEASURES

4.1 Description of first aid measures.

Inhalation:

Remove patient from exposure, keep warm and at

rest. If symptoms persist, obtain medical

attention.

Skin Contact:

Remove contaminated clothing immediately and drench affected skin with plenty of water, then wash with soap and water. If symptoms persist,

obtain medical attention.

Eye Contact:

If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms persist, obtain medical

attention.

Ingestion:

Do not induce vomiting. Provided the patient is conscious, wash out mouth with water. Obtain

immediate medical attention

4.2 Most important symptoms

and effects, both acute and

Narcotic effects

delayed

4.3

medical attention and special treatment needed

Indication of any immediate In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing

Water spray, foam, dry powder or CO2.

Media:

Unsuitable Extinguishing

No information available

Media:

5.2 Special hazards arising from the substance or

No unusual fire or explosion hazards noted.

mixture:

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

- 5.1 Extinguishing media
- 5.3 Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep fire exposed containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid inhalation of dusts. Wear suitable protective clothing and gloves. Provide adequate ventilation.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up.

6.4 Reference to other sections See Section: 8.

Other advice

Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

7. HANDLING AND STORAGE

7.1

Precautions for safe handling Eliminate sources of ignition. Provide adequate ventilation. Avoid inhalation of vapours. Avoid contact with skin and eyes. Wear suitable protective clothing. See Section: 8.

7.2 Conditions for safe storage, including any

incompatibilities

Preserve in tight, light resistant, cool & well ventilated place between 15 ° C and 30 ° C. This material should be handled and stored as per label instructions to ensure product integrity

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters : Tramadol

8.2 Exposure Control: No information available

8.2.1 Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction if dusts, fumes or

vapours are likely to be evolved.

8.2.2 Personal Protection

Eye/face protection Goggles giving complete protection to eyes.

Skin / Body protection Wear suitable gloves and suitable protective

clothing.

Respiratory protection

In case of insufficient ventilation or workplace exposure limits are exceeded wear suitable

respiratory equipment.

8.2.3 Environmental Exposure

Controls

Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: A white crystalline powder.

Colour: White

Chemical Formula: C16H25NO2·HCl

Molecular weight: 299.84

pH (Value): Between 4.5 and 6.0

Melting Point (°C): Between 180° C and 184° C Solubility (Water): Freely soluble in water

Solubility (Other): Freely soluble in methanol and in ethanol; slightly

Issue Date: 06.05.21 Tramadol Page: 6 OF 10

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

soluble in isopropanol; very slightly soluble in.

acetone

Partition Coefficient:

No information available

9.2 Other information

Auto-ignition temperature No information available Explosive limit - lower (%) No information available No information available No information available

10. STABILITY AND REACTIVITY

10.1	Reactivity	No information available.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	No information available.
10.4	Conditions to avoid	Avoid friction, sparks, or other means of ignition. Keep away from heat and direct sunlight.
10.5	Incompatible materials	Strong oxidizing agents. Aluminum
10.6	Hazardous Decomposition Product(s)	NOx. Cl Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.2

Acute toxicity

Ingestion:
Inhalation:
Skin Contact:
Eye Contact
Skin corrosion/irritation
Skin corrosion/irritation
Serious eye damage/irritation
LD50 Rat Oral 228 mg/kg
Toxic if swallowed.
No information available.
May causes skin irritation
May causes eye irritation.
No information available.
No information available.

Serious eye damage/irritation No information available.

Respiratory or skin May cause allergy or asthma symptoms or breathing

sensitization difficulties if inhaled. **Mutagenicity** No information available.

11.3 Carcinogenicity Due to lack of data the classification is not possible.

This material is not considered to be a carcinogen

by IARC, NTP, or OSHA.

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

11.4	Reproductive toxicity	No information available.
11.5	STOT - single exposure	No information available.
11.6	STOT-repeated exposure	Narcotic effects
11.7	Aspiration hazard	No information available.
11.8	Other information	No information available.

12. ECOLOGICAL INFORMATION

12.1	Toxicity	No information available.
12.2	Persistence and	No information available.
	degradability	
12.3	Bioaccumulative potential	No information available.
12.4	Mobility in soil	No information available.
12.5	Results of PBT and VPVB assessment	No information available.
12.6	Additional Information	No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

14.1	UN number	2811
14.2	Proper Shipping Name	Toxic solids, organic, n.o.s. (Tramadol Hydrochloride)
14.3	Transport hazard class(es):	6.1
14.3.1	Land transport (UN):	Toxic solid, organic, n.o.s. (Tramadol Hydrochloride)
14.3.2	Air transport (ICAO-IATA / DGR):	Toxic solid, organic, n.o.s. (Tramadol Hydrochloride)
14.3.3	Sea transport (IMDG-Code / GGVSee):	Toxic solid, organic, n.o.s. (Tramadol Hydrochloride)
14.4	Packing Group	III

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

14.5 Environmental hazards No information available.

14.6 Special precautions for user Avoid release to the environment

14.7 Transport in bulk according to No information available

Annex II of MARPOL73/78

and the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and This Safety Data Sheet was prepared in accordance with

environmental EC Regulation (EC) No. 1907/2006., Regulation (EC)

regulations/legislation No. 1272/2008 (CLP), Directive 67/548/EEC &

specific for the substance or Directive 1999/45/EC.

mixture substance or mixture

15.2 Chemical Safety Assessment No information available

15.3 Superfund Amendments Immediate Hazard - Yes and Reauthorization Act of Delayed Hazard - Yes

1986 (SARA) Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No

16. OTHER INFORMATION

Full text of Hazard statements and Risk phrases for pure substances listed in section 3.

16.1 Issue date: 15 April 2018

16.4 Further information: No information available

LEGEND

CAS = Chemical Abstracts Service;

CNS = Central Nervous System;

EINECS = European Inventory of Existing Commercial Chemical Substances;

EC50 = Effective Concentration 50%;

EPA = Environmental Protection Agency;

IARC = International Agency for Research on Cancer;

IC50 = Inhibitory Concentration 50%;

LC50 = Lethal Concentration 50%;

(According to EC-Regulations 1907/2006 (REACH) & 1272/2008 (CLP)



TRAMADOL HYDROCHLORIDE

LD50 = Lethal Dose 50%;

LTEL = Long Term Exposure Limit;

STEL = Short Term Exposure Limit;

TWA = Time Weighted Average;

STOT = Specific target organ toxicity

Disclaimer:

The above information and recommendations are believed to be correct as on date but does not purport to be all-inclusive and shall be used only as a guide. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

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