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Adrenaline Hydrogen Tartrate CAS No 51-42-3

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifiers Product name	: Adrenaline Hydrogen Tartrate	
	CAS-No.	: 51-42-3	
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	: Laboratory chemicals, Industrial & for professional use only.	
1.3 Details of the supplier of the safety data sheet Company : Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA			
	Telephone Email	: +91 11 49404040 : <u>care@cdhfinechemical.com</u>	
1.4	Emergency telephone nul Emergency Phone #	nber : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 2), H300 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Signal word

Labelling according Regulation (EC) No 1272/2008 Pictogram



In a cause respiratory initiation.	H315Causes skin irritation.H319Causes serious eye irritationH335May cause respiratory irritation	
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Precautionary statement(s)	
P261	Avoid breathing dust.
P264	Wash hands thoroughly after handling.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF IN
P305 + P351 + P338	EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

2.3 Other hazards - none

3.1

SECTION 3: Composition/information on ingredients

Substances	
Formula	: C9H13NO3 · C4H6O6
Molecular weight	: 333.30 g/mol
CAS-No.	: 51-42-3
EC-No.	: 200-097-1

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Concentration Component Classification Concentration Epinephrine hydrogen tartrate Concentration Concentration

pinepinine nyurogen tartrate				
CAS-No.	51-42-3	Acute Tox. 2; Skin Irrit. 2; Eye <=	100 %	
EC-No.	200-097-1	Irrit. 2; STOT SE 3; H300,		
		H315, H319, H335		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Light sensitive. Store under inert gas. Air sensitive. Storage class (TRGS 510): Combustible solids, toxic

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	4 at 20 g/l
e)	Melting point/freezing point	Melting point/range: 155 °C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Ot	her safety information	
	Bulk density	0.6 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Bases, Oxidizing agents, Iron and iron salts., Copper
- Hazardous decomposition products
 Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx)
 Other decomposition products No data available
 In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

No data available(Epinephrine hydrogen tartrate)

Serious eye damage/eye irritation No data available(Epinephrine hydrogen tartrate)

Respiratory or skin sensitisation

No data available(Epinephrine hydrogen tartrate)

Germ cell mutagenicity

Mouse(Epinephrine hydrogen tartrate) Other cell types DNA inhibition

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Laboratory experiments have shown teratogenic effects.(Epinephrine hydrogen tartrate)

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.(Epinephrine hydrogen tartrate)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(Epinephrine hydrogen tartrate)

Additional Information

RTECS: DO3500000

Laboratory experiments in animals have shown fetotoxic results., Palpitation, Tremors, Weakness, Headache(Epinephrine hydrogen tartrate)

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability No data available

- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available(Epinephrine hydrogen tartrate)
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 2		IMDG: 2811	IATA: 2811
14.2	UN proper shipping nameADR/RID:TOXIC SOLID, ORGANIC, N.O.S. (Epinephrine hydrogen tartrate)IMDG:TOXIC SOLID, ORGANIC, N.O.S. (Epinephrine hydrogen tartrate)IATA:Toxic solid, organic, n.o.s. (Epinephrine hydrogen tartrate)			
14.3	Transport h ADR/RID: 6	azard class(es) 5.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging ADR/RID: I	group	IMDG: I	IATA: I
14.5	Environme ADR/RID: r	ntal hazards	IMDG Marine pollutant: no	IATA: no
14.6	Special pre No data ava	cautions for user ailable		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- Fatal if swallowed. H300
- H315 Causes skin irritation.
- Causes serious eye irritation. H319
- May cause respiratory irritation. H335

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.