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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Dimenhydrinate

Dimenhydrinatum Dimenhydrinaat Dimenhydrinate Dimenhydrinat

N° CAS: 523-87-5 N° EC: 208-350-8

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

Identified uses: Active Pharmaceutical Ingredient or Excipient.

1.3 Details of the supplier of the safety data sheet

Company: FAC SECUNDUM ARTEM NV

Oostmalsebaan 1c (unit 5)

2960 Sint-Lenaarts

Belgium

Telephone: (+32) (0)3 457 11 76
Email: info@magis-pharma.be
Web page: www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation: Belgisch Antigifcentrum Centre Antipoisons Belge

Telephone: (+32) (0)70 245 245 (Service 24/7)

Web page: www.antigifcentrum.be www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4 H302+H312
Skin Irr. 2 H315
Eye Irr. 2 H319

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

H302+H312 Harmful if swallowed or contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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Precautionary statements:

P260 Do not breathe dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P301+P312 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Additional applicable label

elements:

Not applicable.

2.3 Other hazards

Dust explosive.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Dimenhydrinate

2-benzhydryloxy-N,N-dimethylethanamine;8-chloro-1,3-dimethyl-7H-purine-2,6-**IUPAC** name:

dione

Dramamine Synonyms:

Diphenhydrinate

Gravol

Motion-Aid

N° CAS: 523-87-5 N° EC: 208-350-8 Molecular Formula: C24H28CIN5O3

Diphenhydramine ($C_{17}H_{21}NO$): 53.0 per cent to 55.5 per cent (dried substance). Content:

8-Chlorotheophylline (C₇H₇ClN₄O₂): 44.0 per cent to 46.5 per cent (dried substance).

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen.

Wash off with plenty of water and soap for at least 15 minutes. Remove After skin contact:

contaminated clothing and shoes. If irritation occurs or persists, get medical

attention. Wash clothing and shoes before reuse.

After contact with the eyes, rinse with water with the eyelids open for a sufficient After eye contact:

length of time, then consult an ophthalmologist immediately.

After ingestion:

Call a physician immediately.

Self-protection of the first

Pay attention to self-protection!

aider:

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4.2 Most important symptoms and effects, both acute and delayed

Exposure to high concentrations may cause hallucinations and distorted perceptions.

Target organs: Eyes, ears, central nervous system.

4.3 Indication of any immediate medical attention and special treatment needed

When symptoms indicate toxicity, immediate medical treatment is necessary. If possible, show this data sheet.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder, foam.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance/mixture

In case of fire may be liberated: Carbon monoxide, Nitrogen oxides, hydrogen chloride.

5.3 Advice for firefighters

Surrounding fires: Do not inhale explosion and combustion gases. Contaminated

extinguishing water must be collected separately. It may not be

discharged into the sewer.

Protection against fire: Not available. Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid generation of dust. Wear personal protection equipment. Wear breathing apparatus if exposed to vapours/dust.

For emergency responders

Avoid generation of dust. Wear personal protection equipment. Wear breathing apparatus if exposed to vapours/dust.

6.2 Environmental precautions

Do not allow to enter drains/surface water/groundwater.

6.3 Methods and material for containment and cleaning up

Carefully take up dry. Vacuum residues. Collect the material according to section 13.

6.4 Reference to other sections

For personal protective equipment, see section 8.

For disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: The product is combustible, fine dust (< 63 μ) may form explosive

mixture.

Personal protection: Not available.

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Technical protective measures: All work processes must always be designed so that the following is

as low as possible: Inhalation, skin contact, eye contact. Avoid

generation of dust.

Handling: Not available.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed.

Conditions for safe storage, including any

incompatibilities:

Keep in a well-ventilated place.

Storage – away from: Protect from light and humidity.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Limits for occupational safety: the substance is not listed.

Valid are the general dust limits for 8 h.

8.2 Exposure controls

Appropriate engineering control

Immediately change contaminated clothing. Wash thoroughly after handling. General room ventilation is adequate unless the process generates dust or fumes. Work clothing should be removed in a change room on site and laundered professionally. Employees should shower and change into street clothes before leaving the facility. Prevent the accumulation of dust in the work area by thorough periodic cleaning of the area.

Individual protection measures

Eye/face protection: Eye protection is required.

Skin protection: Protective clothing should be selected specifically for the working place, depending

on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective

supplier.

Hand protection: Glove material: PVC, Butyl-/Nitrile rubber. Layer thickness: 0.11 mm. The protective

gloves to be used must comply with the specifications of EC directive 89/686/EEC and the standard EN374 derived from it. This recommendation applies only to the product stated in the safe data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-

approved gloves.

Respiratory protection: Is required whenever air contamination (dust, mist, or vapors) is generated by the

process. A NIOSH-approved high efficiency toxic dust/mist/fume respirator is

recommended.

Thermal hazards: Not determined.

Environmental exposure control

Not available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: White or almost white, crystalline powder or colourless crystals.

Odour: Odourless.

Odour threshold: Not available.

pH: $6.5 - 7.5 (10 \text{ g/L H}_2\text{O})$

Melting/freezing point: 102 °C to 106 °C.

Initial boiling point: Not available. Boiling range: Not available. Not available. Flash point: Not available. Evaporation rate:

Flammability (solid/gas): Upper/lower flammability or

explosive limits:

Not available. Not available.

Vapour pressure: Not available. Vapour density: Not available. Not available. Relative density:

Solubility: Freely soluble in ethanol (96%).

Slightly soluble in water: 3.0 g/L (20 °C). Solubility in water:

Partition coefficient - 0.39

(n-octanol/water):

Auto-ignition temperature: Not available. Not available. Decomposition temperature: Not available. Not available. Explosive properties: Oxidising properties: Not available.

9.2 Other information

Viscosity:

Bulk density: 400 - 600 kg/m³

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Oxidising agents.

10.4 Conditions to avoid

Light and elevated temperature.

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10.5 Incompatible materials

Oxidising agents, alkali, acids.

10.6 Hazardous decomposition products

In case of fire, see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

AEMED3, 22, 1481, 1993 Acute toxicity: LDL0 (orl, wmn) 100 mg/kg

> LD50 (orl, rat) 1320 mg/kg NIIRDN 6, 346, 1982

LD50 (ivn, rat) 200 mg/kg **CLDND**

NIIRDN 6, 346, 1982 LD50 (orl, mus) 203 mg/kg LD50 (ipr, mus) 149 mg/kg NIIRDN 6, 346, 1982

Reference: RTECS # XH5082000

Exposure to high concentrations may cause hallucinations and distorted

perceptions.

Skin corrosion/irritation: Causes skin irritation. Harmful in contact with skin.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory/skin sensitisation: Not available. Germ cell mutagenicity: Not available. Carcinogenicity: Not available. Not available. Reproductive toxicity: Summary of evaluation of the Not available.

CMR properties:

STOT-single exposure: Not available. STOT-repeated exposure: Not available. Not available. **Aspiration Hazard:**

Other: Chronic toxicity: May be able to cause congenital malformation in the foetus. Target

> organs: Eyes, ears, central nervous system. To the best of our knowledge, the chemical physical, and toxicological properties have not been thoroughly

investigated.

Adverse reaction symptoms: Sedation, sleepiness, dizziness, disturbed coordination,

epigastric distress, urticaria, anaphylactic shock, photosensitivity, chills, hypotension, headache, palpitations, tachycardia, extrasystoles, haemolytic anaemia, agranulocytosis, thrombocytopenia, fatigue, confusion, excitation, nervousness, tremor, irritability, insomnia, euphoria, paraesthesia, blurred vision, diplopia, vertigo, tinnitus, acute labyrinthitis, neuritis, convulsions, anorexia, nausea, vomiting, diarrhoea, constipation, urinary frequency, difficult urination,

urinary retention, early menses.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin. Harmful in contact with skin.

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Inhalation: Not available.

Ingestion: Harmful if swallowed.

Aspiration: Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ims, pigeon: LD50 > 200 mg/kg (JAPMA8 46, 140, 1957)

12.2 Persistence and degradability

Degradable.

12.3 Bioaccumulative potential

Low, as logP < 3.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Contains no PBT or vPvB ingredient.

12.6 Other adverse effects

On the basis of the data available concerning eliminability/degradation and bioaccumulation potential, longer-term harm to the environment is improbable.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Product waste and residues must be disposed of according to current laws.

Packaging: Non-contaminated packages may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea), Not classified. IATA/ICAO (Air):

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), Not classified. IATA/ICAO (Air):

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea), Not classified. IATA/ICAO (Air):

14.4 Packing group

ADR/ RID(Land),IMDG(Sea), Not classified.

IATA/ICAO (Air):

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14.5 Environmental hazards

ADR/RID(Land),IMDG(Sea),

Not classified.

IATA/ICAO (Air):

14.6 Special precautions for user

Not available.

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

Not available.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:

×

Risk phrases: R21/22 Harmful in contact with skin and if swallowed.

R36 Irritating to eyes. R38 Irritating to skin.

Safety phrases: S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC (number): European Community (number)

IATA: International Air Transport Association
ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous GoodsIUPAC: International Union of Pure and Applied ChemistryPBT: Persistent, Bioaccumulative and Toxic substance

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STOT: Specific Target Organ Toxicity

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UN (number): United Nations (number)

vPvB: very Persistent and very Bioaccumalative

16.3 Key literature references/sources for data

European Chemicals Agency.

https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available.

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

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