



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name : Scutellaria Baicalensis Extract

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

Identified uses : Laboratory chemicals, manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company: Aurora Industry Co.,Ltd.

Tel: 0411-82288674

Address: Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Flammable liquids, Category 3

2.2. Label elements:

Hazard pictograms



(a) Hazards statements:

- H320: Causes eye irritation
- H226: Flammable liquid

(b) Precautionary statements

- Keep away from heat, hot surfaces and other ignition sources.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances Synonyms:

Baikal Skullcap Root

3.2. Chemical Description:

an aqueous ethanolic extraction of herbal material

3.3. Ingredients:

Scutellaria baicalensis, Ethanol, Purified Water BP.

4. FIRST AID MEASURES

4.1. General information:



When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

(a) After inhalation:

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

(b) After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

(c) In case of Skin contact:

Remove contaminated clothing wash the affected area thoroughly with soap and water. If discomfort persists seek medical attention.

(d) In case of Ingestion:

DO NOT INDUCE VOMITING. In case of spontaneous vomiting, ensure vomit can drain freely to prevent danger of suffocation. Never give anything by mouth to an unconscious person when conscious, rinse mouth with 500ml water. If there is difficulty in breathing give oxygen. If breathing stops or shows signs of failing, apply artificial respiration. Obtain medical attention should symptoms persist.

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

No data available

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

No data available

4.4. Self-protection of the first aider:

First aider: Pay attention to self-protection!

4.5. Information to physician:

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

(a) Suitable extinguishing media:

Water spray ABC-powder Carbon dioxide (CO₂) Nitrogen

(b) Extinguishing media which must not be used for safety reasons:

No restriction

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂) Carbon monoxide

5.3 Advice for firefighters:

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information:



Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Prevent contamination of soils, drains and surface water

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling sweep up or absorb material, then place into a suitable clean dry, closed container for disposal. Wash area with detergent and water.

6.4 Additional information:

Clear spills immediately

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Product should be handled according to good industrial practice. Use in well ventilated area avoid inhaling vapour. Avoid contact with eyes, skin, and clothing.

Keeping container tightly closed when not in use. Keep away from sources of ignition.

- No smoking. Usual measures for fire prevention. slight dehydrating effect (hygroscopic).

7.2 Conditions for safe storage

(a) storage temperature:

15-25 °C

(b) Storage class:

3

(c) storage area:

should be cool, well ventilated. Store away from sources of heat and ignition. Storage tanks and transfer should be adequately earthed and bonded to the accumulation of static charge

7.3. Specific end use(s):

no data available

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 Control parameters

no data available



8.2 Exposure controls

(a) Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment

(b) Personal protection equipment:

- Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

- Eye/face protection

- Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

- Skin protection

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles

DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

(c) Environmental exposure controls:

no data available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(a) Appearance: A brown mobile liquid

(b) Odour: Characteristic

(c) Odour Threshold: no data available

(d) PH: no data available

(e) Melting point/freezing point Melting point/range: no data available

(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

- Lower explosion limit:

- Upper explosion limit:

(k) Vapour pressure: no data available

(l) Vapour density: no data available

(m)Relative density: no data available

(n) Solubility(ies): no data available

- at 20°C:

- Soluble (g/L) in:

(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
 - Kinematic viscosity:
 - Dynamic viscosity:
- (s) Explosive properties: no data available
- (t) Oxidizing properties: no data available
- (u) Ethanol Content: 67 - 73 % (v/v)

9.2 Other safety information

- (a) Bulk density:
no data available
- (b) Refraction index:
no data available
- (c) Dissociation constant:
no data available
- (d) Surface tension:
no data available
- (e) Henry constant:
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

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

Strong oxidizing. Nitric acid

10.6 Hazardous decomposition products

no data available

10.7 Additional information

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- (a) Acute effects
 - Acute oral toxicity: LD50 (oral. Rat): 6200 mg/kg (CHP) (Ethanol)
 - Acute dermal toxicity: LD50 (dermal. Rabbit): >20000 mg/kg (CHP) (Ethanol)
 - Acute inhalation toxicity: LC50 (inhalative. Rat. 4h): >8000 mg/l (CHP) (Ethanol)
- (b) Irritant and corrosive effects:



- Primary irritation to the skin: not applicable
- Irritation to eyes: not applicable
- Irritation to respiratory tract: not applicable
- (c) Respiratory or skin sensitisation:
in case of skin contact: not sensitising After inhalation: not sensitising
- (d) STOT-single exposure:
not applicable
- (e) STOT-repeated exposure:
not applicable
- (f) CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
 - Carcinogenicity:
no indication of human carcinogenicity.
 - Germ cell mutagenicity:
no indications of human germ cell mutagenicity exist.
 - Reproductive toxicity:
for ethanol components of preparation, adverse effects on male reproductive systems have been reported in laboratory animals on prolonged exposure
 - Aspiration hazard:
not applicable
 - Other adverse effects:
no data available
 - Additional information:
no data available

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

- (a) Acute (short-term) fish toxicity:
no data available
- (b) Chronic (long-term) fish toxicity:
no data available
- (c) Acute (short-term) daphnia toxicity:
no data available
- (d) Chronic (long-term) daphnia toxicity:
no data available
- (e) Acute (short-term) algae toxicity:
no data available
- (f) Chronic (long-term) algae toxicity:
no data available

12.2. Persistence and degradability:

no data available

12.3. Bioaccumulative potential:

Partition coefficient: n-octanol/water: no data available



12.4. Mobility in soil:

no data available

12.5. Results of PBT/vPvB assessment:

no data available

12.6. Other adverse effects:

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

(a) Appropriate disposal / Product:

- Dispose according to local legislation:

Consult the appropriate local waste disposal expert about waste disposal.

- Waste code product:

no data available

(b) Appropriate disposal / Package:

- Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

(c) Additional information:

- This material must be disposed of as hazardous waste according to special waste regulations 1996 or according to local regulations, in compliance with duty of care regulations and special waste regulations as waste from manufacturing, supply and use of pharmaceuticals.

14. TRANSPORT INFORMATION

14.1. Land transport (ADR/RID)

(a) UN number: 1293 (tincture, medicinal)

(b) UN proper shipping name: Ethanolic solution

(c) Classification: R10 Flammable liquid

(d) Transport hazard class(es): 3

(e) Packaging group: III

(f) Environmental hazards: No

(g) Special precautions for user:

- Hazard identification number (kemler No.): no data available
- Tunnel restriction code: no data available

14.2. Sea transport (IMDG)

(a) UN number: 1293 (tincture, medicinal)

(b) UN proper shipping name: Ethanolic solution

(c) Classification: R10 Flammable liquid.

(d) Transport hazard class(es): 3

(e) Packaging group: III

(f) Environmental hazards: No



- Marine pollutant: No
- (g) Special precautions for user: no data available
- (h) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant

14.3. Air transport (ICAO-TI / IATA-DGR)

- (a) UN number: 1293 (tincture, medicinal)
- (b) UN proper shipping name: Ethanolic solution
- (c) Classification: R10 Flammable liquid
- (d) Transport hazard class(es): 3
- (e) Packaging group: III
- (f) Special precautions for user: Not relevant

15. REGULATORY INFORMATION

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

(a) General rules:

- Water hazard class (WGK): slightly hazardous to water (WGK 1)
- EU: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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 Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)
- EU: Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)
- EU: Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)

15.2. Chemical Safety Assessment:

no data available

16. OTHER INFORMATION

16.1. Abbreviations and acronyms:

- (a) ACGIH - American Conference of Governmental Industrial Hygienists
- (b) ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
- (c) AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)



- (d) CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures
- (e) DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)
- (f) Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)
- (g) IATA-DGR - International Air Transport Association-Dangerous Goods Regulations
- (h) ICAO-TI - International Civil Aviation Organization-Technical Instructions
- (i) IMDG - International Maritime Code for Dangerous Goods
- (j) LTV - Long Term Value
- (k) NIOSH - National Institute for Occupational Safety and Health
- (l) OSHA - Occupational Safety & Health Administration
- (m) PBT - Persistent, Bioaccumulative and Toxic
- (n) RID - Regulation concerning the International Carriage of Dangerous Goods by Rail
- (o) STV - Short Term Value
- (p) SVHC - Substances of Very High Concern
- (q) vPvB - very Persistent, very Bioaccumulative

16.2. Additional information:

No date available

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