

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

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

- **1.1 Product identifier**
- **Trade name Matches**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture Matches**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Denbies Group
71 Star Crescent
Hallam
Victoria 3803
Australia
- **Informing department:** Email: info@denbies.com.au
- **1.4 Emergency telephone number:**
Denbies Group, 71 Star Crescent, Hallam, Vic 3803, Ph: +61 3 9796 5811

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Sol. 2 H228 Flammable solid.



GHS03 flame over circle

Ox. Sol. 1 H271 May cause fire or explosion; strong oxidiser.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



O; Oxidising

R9: Explosive when mixed with combustible material.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

Trade name **Matches**

(Contd. of page 1)

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms** GHS02, GHS03

- **Signal word** Danger

- **Hazard statements**

H228 Flammable solid.

H271 May cause fire or explosion; strong oxidiser.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P221 Take any precaution to avoid mixing with combustibles.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P220 Keep/Store away from clothing/combustible materials.

P240 Ground/bond container and receiving equipment.

P273 Avoid release to the environment.

P283 Wear fire/flamm resistant/retardant clothing.

P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Contains rosin. May produce an allergic reaction.

- **Information pertaining to particular dangers for man and environment**

All information in this SDS apply only to flammable head of match.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with harmless additions.

(Contd. on page 3)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC









Version number 19

Revision: 29.09.2014

Trade name **Matches**

(Contd. of page 2)

· Dangerous components:

CAS: 3811-04-9 EINECS: 223-289-7	potassium chlorate  Xn R20/22;  O R9;  N R51/53  Ox. Sol. 1, H271;  Aquatic Chronic 2, H411;  Acute Tox. 4, H302; Acute Tox. 4, H332	2.5-10%
CAS: 8050-09-7 EINECS: 232-475-7	rosin  Xi R43  Skin Sens. 1, H317	< 0.5%

- **SVHC** The product contains no substances named in the SVHC candidate list.
- **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is not skin irritating.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:** Collect mechanically.

(Contd. on page 4)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

Trade name Matches

(Contd. of page 3)

- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Store away from reducing agents.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** Keep away from foodstuffs, beverages and food.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves** Not relevant.
- **Penetration time of glove material** Not relevant.
- **Eye protection:** Not required.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
Form: Solid.

(Contd. on page 5)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

Trade name **Matches**

(Contd. of page 4)

Colour:	<i>Different according to colour</i>
· Smell:	<i>Ester-like</i>
· Odour threshold:	<i>Not determined.</i>
· pH-value:	<i>Not applicable.</i>
· Change in condition	
Melting point/Melting range:	<i>Not determined</i>
Boiling point/Boiling range:	<i>400 °C</i>
· Flash point (DIN 51758; SETA CLOSED CUP):	<i>Not applicable</i>
· Inflammability (solid, gaseous)	<i>Not determined.</i>
· Ignition temperature:	
Decomposition temperature:	<i>Not determined.</i>
· Self-inflammability:	<i>> 170 °C</i>
· Danger of explosion:	<i>Explosive when mixed with combustible material.</i>
· Critical values for explosion:	
Lower:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>
· Steam pressure:	<i>Not applicable.</i>
· Density (DIN 51757):	<i>Not determined</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not applicable.</i>
· Evaporation rate	<i>Not applicable.</i>
· Solubility in / Miscibility with	
Water:	<i>Partly miscible</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
dynamic:	<i>Not applicable.</i>
kinematic:	<i>Not applicable.</i>
· 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Visible decomposition with spontaneous ignition on heating
- **10.3 Possibility of hazardous reactions** *Self igniting at raised temperature*
- **10.4 Conditions to avoid** *No further relevant information available.*

(Contd. on page 6)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

Trade name *Matches*

(Contd. of page 5)

- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:** Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **AOX-indication:** not relevant
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
none
- **General notes:**
Harmful to aquatic organisms
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19



Revision: 29.09.2014

Trade name *Matches*

(Contd. of page 6)

- **European waste catalogue**
The waste key numbers from EWC, is sector and process-specific implement .
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	UN1944
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	1944 MATCHES, SAFETY MATCHES, SAFETY
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives. 4.1
<ul style="list-style-type: none"> · IMDG, IATA 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.1
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: 	Warning: Flammable solids, self-reactive substances and solid desensitised explosives. - F-A,S-I
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.

(Contd. on page 8)

GB


Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

Trade name *Matches*

(Contd. of page 7)

· **Transport/Additional information:**

· **ADR**

- **Limited quantities (LQ)** 5 kg
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
- **Transport category** 4
- **Tunnel restriction code** E

· **IMDG**

- **Limited quantities (LQ)** 5 kg
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

- **UN "Model Regulation":** UN1944, MATCHES, SAFETY, 4.1, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:** none
- **Technical instructions (air):**
- **Class Share in %** not relevant
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H411 Toxic to aquatic life with long lasting effects.
- R20/22 Harmful by inhalation and if swallowed.
- R43 May cause sensitisation by skin contact.

(Contd. on page 9)

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au

Safety data sheet

according to 1907/2006/EC

Version number 19

Revision: 29.09.2014

Trade name **Matches**

(Contd. of page 8)

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R9 Explosive when mixed with combustible material.

· **Contact:**

Denbies Group

Phone: +61 3 9796 5811

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

Flam. Sol. 2: Flammable solids, Hazard Category 2

Ox. Sol. 1: Oxidising Solids, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· *** Data compared to the previous version altered.**

GB



Denbies Group

71 Star Crescent | Hallam, Victoria 3803 | Australia | Ph: + 61 3 9796 5811

Fax: + 61 3 9796 5059 | Email: info@denbies.com.au | Web: www.denbies.com.au