



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.11.2016

Version number 1

Revision: 08.11.2016

Hazardous according to criteria of Australian Safety and Compensation Council hazard – Category 3

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

- **1.1 Product identifier**
- **Trade name: MONSUN Drier HGI-19808**
- **MSDS no. 252,725**
- **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** Printing inks
- **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**
Hubergroup Australia Pty. Ltd.
Unit 8, 450 Princes Highway
Noble Park
VIC 3174

Contact Point:
Company Contact – Product Technical Manager
Business Hours - +61 (03) 9549 9300
After Hours – 0488 020 164

Telephone: +61 (03) 9549 9300
Facsimile: +61 (03) 9701 0066

SECTION 2: Hazards identification

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



health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 2 H401 Toxic to aquatic life.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

Cobalt(II) 2-ethylhexanoate

· **Hazard statements**

H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H401 Toxic to aquatic life.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace. P201
Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood. P321
Specific treatment (see on this label).
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards** This information is provided by the present Material Safety Data Sheet.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Dangerous components:**

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List

	soybean- based isophthalic alkylid	25-30%
	Acute Tox. 5, H303	
CAS: 136-52-7	Cobalt(II) 2-ethylhexanoate	5-<10%
EINECS: 205-250-6	Repr. 2, H361; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information**

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

· **After inhalation**

Remove to fresh air.

Keep patient warm and at rest.

· **After skin contact**

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

· **After eye contact**

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

· **After swallowing** Do NOT induce vomiting. Obtain medical attention.

· 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** Alcohol resistant foam, CO₂, powders, water spray.

· **For safety reasons unsuitable extinguishing agents** Water jet.

· 5.2 Special hazards arising from the substance or mixture

Appropriate breathing apparatus may be required.

Cool closed containers exposed to fire with water.

· 5.3 Advice for firefighters

· **Protective equipment:** No special measures required.

· **Additional information** Collect run-off from fire fighting.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Ventilate the area.

· 6.2 Environmental precautions:

Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.

· 6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

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· **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**

Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

Keep container tightly closed.No smoking.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

· **Further information about storage conditions:**

Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.

Note Instructions on the label.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:**

If relevant apply technical measures to comply with the occupational exposure limits. This can be by a good general extraction and-if practically feasible, be achieved by local exhaust ventilation.

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

Numerical data - if specified - are taken from the valid national lists.

· **PNECs**

136-52-7 Cobalt(II) 2-ethylhexanoate

PNEC 10.9 mg/kg (soil)

PNEC STP 0.37 mg/l (STP)

· **8.2 Exposure controls**

· **Personal protective equipment**

· **Breathing equipment:**

The use of respiratory protective measures, such as masks with filters for organic Vapours and dusts / mists are, in the absence of appropriate technical equipment, necessary for the protection of the employee. If exposure is above the exposure limit, then an appropriate, approved respirator must be worn. Please refer to the appropriate EU standard 14387.

· **Protection of hands:**

For prolonged or repeated contact use gloves.

Barrier creams may help to protect exposed skin, they should however not be applied once have come into contact with the product.

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommend protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact

Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Use safety eyewear designed to protect against splash of liquids.

· **Body protection:**

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

All parts of the skin should be washed after contact.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** liquid
· **Colour:** according to the tradename of the product
· **Smell:** characteristic

· **Odour threshold:** · **pH-value:** Not determined.

· **Change in condition** Not determined.

· **Melting point/Melting range:** · not determined

· **Flash point:** >100 °C

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature (Main Solevnt):** Not determined.

· **Decomposition temperature:** · Not determined.

Self-inflammability:

· **Danger of explosion:** Not determined.

· **Critical values for explosion:** Not determined.

· **Lower: approx.** Not determined.

· **Upper: approx.** Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C** 1.05 g/cm³

· **Relative density** · Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

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- **Solubility in / Miscibility with**
 - Water:** partly or not miscible
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - dynamic:** Not determined.
 - kinematic:** Not determined.
 - Organic solvents:** < 0.06 %
 - Water:** < 0.06 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No further relevant information available.
- **10.3 Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (see section 7).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.
- **10.6 Hazardous decomposition products:**
Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

SECTION 11: Toxicological information

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

- **11.1 Information on toxicological effects**
- **Acute toxicity** No data available
- **LD/LC50 values that are relevant for classification:**
 - soybean- based isophthalic alkyd**
Oral LD50 > 2000 mg/kg (rat)
 - 136-52-7 Cobalt(II) 2-ethylhexanoate**
Oral LD50 3129 mg/kg (rat)
Dermal LD50 >5000 mg/kg (rat)
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

The Product should not be allowed to enter drains of water courses or soil.

- **12.1 Toxicity**
- **Aquatic toxicity:**
136-52-7 Cobalt(II) 2-ethylhexanoate
Fish toxicity 275 mg/l (fish) (LC50; 96 h) Daphnia
toxicity 2.618 mg/l (daphnia) (EC50; 48 h) Algae
toxicity 0.2831 mg/l (algae) (EC50; 72 h)
- **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:**
- **General notes:** Harmful to aquatic organisms
- **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** Do not allow to enter drains.
- **Uncleaned packagings:** Waste
- **Recommendation:**
Emptied containers should be disposed off into scrap recycling or reconditioning respectively.
Not orderly emptied cans and ink remnants are special waste.

SECTION 14: Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

- **14.1 UN-Number**
- **ADG, ADN, IMDG, IATA** -
- **14.2 UN proper shipping name**
- **ADG, ADN, IMDG, IATA** -

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- **14.3 Transport hazard class(es)**
- **ADG, ADN, IMDG, IATA**
- **Class** -
- **14.4 Packing group**
- **ADG, IMDG, IATA** -
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

SECTION 15: Regulatory information

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

- **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **National regulations**

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

- **VOC-Content (EU):** not specified

- **Swiss VOC-Regulation** 0.00 %

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Contact Point:

Company Contact – Product Technical Manager

Business Hours - +61 (03) 9549 9300

After Hours – 0488 020 164

Australian Poisons Information Centre 24 hour service 13 11 26

POLICE, FIRE BRIGADE, AMBULANCE 000

The information on this Safety Data Sheet is based on the present state of our knowledge and on current national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

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· **Relevant phrases**

- H303 May be harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

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 Harmonised 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)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute
Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2
2A Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic
Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2 Aquatic
Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3