

**Safety Data Sheet**  
according to WHS Regulations

Printing date: 19.10.2020

Version number 1


Revision: 19.10.2020

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

- **Product identifier** Lustre
  - **Tradename:**
  - **Article number: L295**
  - **Relevant identified uses of the substance or mixture and uses advised against**
  - **Sector of Use**  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - **Environmental release category** ERC5 Use at industrial site leading to inclusion into/onto article
  - **Application of the substance / the mixture** Lustre
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Johnson Matthey Advanced Glass Technologies B.V.  
Fregatweg 38  
6222 NZ Maastricht, The Netherlands
  - **Emergency telephone number:** Tel.: +31 43 3525408
- Tel.: +31 43 3525400  
Fax : +31 43 3525555  
e-mail: jmbv.sds@matthey.com

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
Flam. Liq. 3 H226 Flammable liquid and vapour.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 2 H371 May cause damage to organs.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**  
  
GHS02 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
rosemary extr.  
rosin  
alpha-Pinene  
Hydrocarbons, terpene processing by-products
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

(Contd. on page 2)

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 1)

H317 May cause an allergic skin reaction.

H371 May cause damage to organs.

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P321 Specific treatment (see on this label).
- P331 Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards****Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

**Chemical characterisation: Mixtures**

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

**Hazardous components:**

CAS: 8000-25-7 EINECS: 283-291-9	rosemary extr. Consisting of: 470-82-6 eucalyptol (≥30-<45%); 76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (≥5-<15%); 80-56-8 alpha-Pinene (≥10-<20%); 106-22-9 dl-Citronellol (≥1-<10%); 127-91-3 beta-pinene (≥1-<10%) Alternative CAS number: 84604-14-8 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 2, H371; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; ⚠ Skin Sens. 1, H317	>20-<30%
CAS: 80-56-8 EINECS: 201-291-9	alpha-Pinene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2A, H319	>15-<20%
CAS: 546-68-9 EINECS: 208-909-6	tetraisopropoxytitanium ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2A, H319	>15-<20%
CAS: 8050-09-7 EINECS: 232-475-7	rosin ⚠ Skin Sens. 1, H317	≥1-≤15%
CAS: 583-59-5 EINECS: 209-512-0	2-methylcyclohexanol, mixed isomers ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332	>10-<15%
CAS: 76-22-2 EINECS: 200-945-0	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one ⚠ Flam. Sol. 2, H228; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2A, H319; ⚠ STOT SE 3, H335	>6-<8%

(Contd. on page 3)

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 2)

- **SVHC** This product does not contain any SVHC in reportable quantities
- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** In case of persistent symptoms consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Put on breathing apparatus.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Prevent material from reaching sewage system, holes and cellars.  
Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.

### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling**  
No special measurement required  
No special precautions necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.

(Contd. on page 4)

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 3)

- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**  
The application of this product requires well exhausted firing kilns and efficient ventilation of working areas.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.



Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.
- **Protection of hands:**  
Protective gloves.  
Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.
- **Material of gloves**  
Nitrile rubber, NBR  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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:** Tightly sealed safety glasses.

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:**

Neutral
Not determined.
- **Change in condition**

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	36 °C
- **Flash point:** 33 °C (ISO 3679)

(Contd. on page 5)

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 4)

· <b>Inflammability (solid, gaseous)</b>	Not applicable.
· <b>Ignition temperature:</b>	296 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	0.8 Vol %
<b>Upper:</b>	6.1 Vol %
· <b>Vapour pressure at 20 °C:</b>	3 hPa
· <b>Density</b>	Not determined
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents/VOC:</b>	30.5 %
<b>VOC (EU):</b>	30.47 %
· <b>Solids content:</b>	22.5 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

**8000-25-7 rosemary extr.**

Oral | LD50 | 5,000 mg/kg (rat)

**76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one**

Oral | LD50 | 1,310 mg/kg (mouse)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritant effect.

(Contd. on page 6)

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 5)

- **Respiratory or skin sensitisation** Sensitization possible by skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

**8000-25-7 rosemary extr.**

Oral	LC50/48 h	6.7 mg/L (fish) (DIN 38412 T.15) golden orfe
	EC50/24 h	25.2 mg/L (daphnia) (DIN 38412, 11)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| · <b>UN-Number</b>               |                                       |
| · <b>IMDG, IATA</b>              | UN1263                                |
| · <b>UN proper shipping name</b> |                                       |
| · <b>ADG</b>                     | 1263 PAINT, ENVIRONMENTALLY HAZARDOUS |
| · <b>IMDG</b>                    | PAINT (rosemary extr., alpha-PINENE)  |
| · <b>IATA</b>                    | PAINT                                 |

(Contd. on page 7)

-AU-

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 6)

- **Transport hazard class(es)**

- **ADG, IMDG**



- **Class** 3 Flammable liquids.
- **Label** 3

- **IATA**



- **Class** 3 Flammable liquids.
- **Label** 3

- **Packing group**

- **ADG, IMDG, IATA** III

- **Environmental hazards:** Product contains environmentally hazardous substances: rosemary extr.

- **Marine pollutant:** Symbol (fish and tree)

- **Special marking (ADG):** Symbol (fish and tree)

- **Special precautions for user** Warning: Flammable liquids.

- **Kemler Number:** 30

- **EMS Number:** F-E,S-E

- **Stowage Category** A

- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

- **Transport/Additional information:**

- **ADG**

- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- **IMDG**

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

- **UN "Model Regulation":** UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

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

- **Australian Inventory of Industrial Chemicals**

8000-25-7	rosemary extr.
80-56-8	alpha-Pinene
546-68-9	tetraiso-propoxytitanium

(Contd. on page 8)

# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

Article number: **L295**

(Contd. of page 7)

8050-09-7	rosin
583-59-5	2-methylcyclohexanol, mixed isomers
76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one
67-63-0	propan-2-ol
8000-41-7	terpineol
1330-20-7	xylene, mixture of isomers
12002-43-6	Asphalt
104-46-1	Anethole (isomer unspecified)
68956-56-9	Hydrocarbons, terpene processing by-products
842-07-9	C.I. Solvent Yellow 14
70879-65-1	1-(2-methyl-4-(2-methylphenylazo)phenylazo)-2-naphthol
100-41-4	ethylbenzene
14233-37-5	C.I. solvent blue 36
2646-17-5	1-[(2-methylphenyl)azo]-2-naphthol

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

76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	S5, S6
1330-20-7	xylene, mixture of isomers	S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

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

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations**

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

· **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.

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

## 16 Other information

The information is based on our present state of knowledge and does not represent a guarantee for any product characteristics.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H228 Flammable solid.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H371 May cause damage to organs.

· **Contact:**

S. Spronck

Technical Service Manager

· **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)

(Contd. on page 9)



# Safety Data Sheet

## according to WHS Regulations

Printing date: 19.10.2020

Version number 1

Revision: 19.10.2020

**Article number: L295**

(Contd. of page 8)

IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
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)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids – Category 3  
Flam. Sol. 2: Flammable solids – Category 2  
Acute Tox. 4: Acute toxicity - inhalation – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1

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

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