

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

Printing date 18.12.2019

Revision: 13.11.2019

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

For professional use only

- **1.1 Product identifier** For professional use only
  - **Trade name:** Brushing Additive AI257
  - **Article number:** 5651
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Surface Coating
  - **Application of the substance / the mixture**  
Surface Coating  
Surface Coating
  - **Uses advised against** Product is not intended, labelled or packaged for consumer use.
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
HMG PAINTS LIMITED  
RIVERSIDE WORKS, COLLYHURST ROAD,  
MANCHESTER. M40 7RU  
UNITED KINGDOM  
TEL: +44 (0)161 205 7631  
EMAIL: sales@hmgpaint.com
- **Further information obtainable from:** sales@hmgpaint.com
- **1.4 Emergency telephone number:** +44 (0)161 205 7631 (Business hours)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - Flam. Liq. 3      H226 Flammable liquid and vapour.
  - Skin Irrit. 2      H315 Causes skin irritation.
  - Skin Sens. 1      H317 May cause an allergic skin reaction.
  - Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.
  - Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.

· **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    GHS07    GHS08    GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
4-isopropenyl-1-methylcyclohexane  
Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics,  
<2% aromatics  
2-butanone oxime  
cobalt bis(2-ethylhexanoate)

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.12.2019

Revision: 13.11.2019

**Trade name: Brushing Additive A1257**

(Contd. of page 1)

**· Hazard statements**

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H304 May be fatal if swallowed and enters airways.
- H410 Very toxic to aquatic life with long lasting effects.

**· Precautionary statements**

- 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):** Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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****· Results of PBT and vPvB assessment**

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

### SECTION 3: Composition/information on ingredients

**· 3.2 Chemical characterisation: Mixtures**

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

**· Dangerous components:**

CAS: 138-86-3 EINECS: 205-341-0 Reg.nr.: 01-2120766421-57-0000	4-isopropenyl-1-methylcyclohexane ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Skin Sens. 1, H317	50-100%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33-xxxx	Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	10-25%
CAS: 22464-99-9 EINECS: 245-018-1 Reg.nr.: 01-2119979088-21	2-ethylhexanoic acid, zirconium salt ⚠ Repr. 2, H361d; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319	≤ 2.5%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy ⚠ Flam. Liq. 3, H226; ⚠ Muta. 1B, H340; ⚠ Carc. 1B, H350; ⚠ Asp. Tox. 1, H304	≤ 2.5%
CAS: 96-29-7 EINECS: 202-496-6 Reg.nr.: 01-2119539477-28	2-butanone oxime ⚠ Carc. 2, H351; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H312; ⚠ Skin Sens. 1, H317	≤ 2.5%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt bis(2-ethylhexanoate) ⚠ Repr. 1B, H360F; ⚠ Aquatic Acute 1, H400; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317; ⚠ Aquatic Chronic 3, H412	≤ 2.5%

- **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:** Immediately remove any clothing soiled by the product.

**· After inhalation:**

- Supply fresh air and call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- Supply fresh air; consult doctor in case of complaints.

(Contd. on page 3)

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

Printing date 18.12.2019

Revision: 13.11.2019

**Trade name: Brushing Additive A1257**

(Contd. of page 2)

- **After skin contact:**  
*Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:**  
*Do not induce vomiting; call for medical help immediately and show safety datasheet or label.*
- **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** *Treat symptomatically.*

### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
*CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Put on breathing apparatus*

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
*Wear protective equipment. Keep unprotected persons away.*
- **6.2 Environmental precautions:**  
*Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.*
- **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 disposal information.*

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
*Keep receptacles tightly sealed.  
Ensure good ventilation/extraction at the workplace.  
Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
*Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risk of fires, all contaminated materials should be [stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.] or [laid out flat in a single layer to dry] or [placed in a metal container soaked with water] or [washed out well with warm soapy water before disposal.] Contaminated materials should be removed from the workplace at the end of each working day and stored outside.*

(Contd. on page 4)

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

Printing date 18.12.2019

Revision: 13.11.2019

**Trade name: Brushing Additive A1257**

(Contd. of page 3)

- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed and in a well-ventilated place.  
Keep away from heat.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**96-29-7 2-butanone oxime**

OEL Long-term value: 1 mg/m<sup>3</sup>, 0.3 ppm

**136-52-7 cobalt bis(2-ethylhexanoate)**

WEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Co; Carc, Sen

· **DNELs**

**138-86-3 4-isopropenyl-1-methylcyclohexane**

Oral DNEL 4.76 mg/day (Con)

Dermal DNEL 111 mg/day (Con)

222 mg/day (Ind)

Inhalative DNEL 8.33 mg/m<sup>3</sup> (Con)

33.3 mg/m<sup>3</sup> (Ind)

**Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics,  
<2% aromatics**

Oral DNEL 125 mg/day (Con)

Dermal DNEL 125 mg/day (Con)

208 mg/day (Ind)

Inhalative DNEL 185 mg/m<sup>3</sup> (Con)

871 mg/m<sup>3</sup> (Ind)

**96-29-7 2-butanone oxime**

Dermal DNEL 0.78 mg/day (Con)

1.3 mg/day (Ind)

Inhalative DNEL 2.7 mg/m<sup>3</sup> (Con)

9 mg/m<sup>3</sup> (Ind)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:** When spraying the product, use a respiratory protective device.

· **Protection of hands:**



Protective gloves

(Contd. on page 5)

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

Printing date 18.12.2019

Revision: 13.11.2019

**Trade name: Brushing Additive A1257**

(Contd. of page 4)

- **Material of gloves**

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:	Liquid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	150 °C

- **Flash point:** 40 °C

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** 245 °C

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

Lower:	0.7 Vol %
Upper:	6.1 Vol %

- **Vapour pressure at 20 °C:** 2.1 hPa

Density at 20 °C:	0.894 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

- **Solubility in / Miscibility with water:** NOT MISCIBLE

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**

Dynamic:	Not determined.
Kinematic at 20 °C:	13 s (DIN 53211/4)

(Contd. on page 6)

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

Printing date 18.12.2019

Revision: 13.11.2019

Trade name: **Brushing Additive A1257**

(Contd. of page 5)

· <b>Solvent content:</b>	
<b>Organic solvents:</b>	60.9 %
· <b>Solids content:</b>	
	27.5 %
· <b>9.2 Other information</b>	
	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products when stored and handled correctly

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**138-86-3 4-isopropenyl-1-methylcyclohexane**

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rab)

**Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics,  
<2% aromatics**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rat)

**96-29-7 2-butanone oxime**

Oral	LD50	2,326 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (Rab)
		200-2,000 mg/kg (rat)
Inhalative	LC50/4 h	>4.8 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **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.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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**  
May be fatal if swallowed and enters airways.

GB

(Contd. on page 7)

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

Printing date 18.12.2019

Revision: 13.11.2019

Trade name: **Brushing Additive A1257**

(Contd. of page 6)




### 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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.
- **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 together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |   |
|--|---|
| · <b>14.1 UN-Number</b>                  |   |
| · <b>ADR, IMDG, IATA</b>                 | UN1263  |
| · <b>14.2 UN proper shipping name</b>    |   |
| · <b>ADR</b>                             | 1 2 6 3 PAINT RELATED MATERIAL,<br>ENVIRONMENTALLY HAZARDOUS  |
| · <b>IMDG</b>                            | PAINT RELATED MATERIAL (DIPENTENE), MARINE<br>POLLUTANT   |
| · <b>IATA</b>                            | PAINT RELATED MATERIAL  |
| · <b>14.3 Transport hazard class(es)</b> |   |
| · <b>ADR, IMDG</b>                       |   |
|  |   |
| · <b>Class</b>                           | 3 Flammable liquids.  |
| · <b>Label</b>                           | 3   |
| · <b>IATA</b>                            |   |
|  |    |
| · <b>Class</b>                           | 3 Flammable liquids.  |
| · <b>Label</b>                           | 3   |

(Contd. on page 8)



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

Printing date 18.12.2019

Revision: 13.11.2019

Trade name: **Brushing Additive A1257**

(Contd. of page 7)

· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	<b>III</b>
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b> · <b>Special marking (ADR):</b>	<i>Product contains environmentally hazardous substances:</i> <i>4-isopropenyl-1-methylcyclohexane</i> <i>Symbol (fish and tree)</i> <i>Symbol (fish and tree)</i>
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	<i>Warning: Flammable liquids.</i> <b>30</b> <b>F-E,S-E</b> <b>A</b>
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<b>5L</b> <b>Code: E1</b> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>Transport category</b> · <b>Tunnel restriction code</b>	<b>3</b> <b>D/E</b>
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<b>5L</b> <b>Code: E1</b> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<b>UN 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS</b>

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
*E1 Hazardous to the Aquatic Environment*  
*P5c FLAMMABLE LIQUIDS*
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
I	0.2
NK	60.9

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 9)



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

Printing date 18.12.2019

Revision: 13.11.2019

Trade name: **Brushing Additive A1257**

(Contd. of page 8)

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Full text of H-Statements referred to under sections 2 and 3:**

- H226 *Flammable liquid and vapour.*
- H304 *May be fatal if swallowed and enters airways.*
- H312 *Harmful in contact with skin.*
- H315 *Causes skin irritation.*
- H317 *May cause an allergic skin reaction.*
- H318 *Causes serious eye damage.*
- H319 *Causes serious eye irritation.*
- H336 *May cause drowsiness or dizziness.*
- H340 *May cause genetic defects.*
- H350 *May cause cancer.*
- H351 *Suspected of causing cancer.*
- H360F *May damage fertility.*
- H361d *Suspected of damaging the unborn child.*
- H400 *Very toxic to aquatic life.*
- H410 *Very toxic to aquatic life with long lasting effects.*
- H412 *Harmful to aquatic life with long lasting effects.*

· **Department issuing SDS:** Product safety department: **LABORATORY**

· **Contact:** Health & Safety Officer

· **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)
- ICAO: International Civil Aviation Organisation
- 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)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Muta. 1B: Germ cell mutagenicity – Category 1B
- Carc. 1B: Carcinogenicity – Category 1B
- Carc. 2: Carcinogenicity – Category 2
- Repr. 1B: Reproductive toxicity – Category 1B
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3