



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

Printing date 30.10.2017

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Revision: 30.10.2017

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

- **1.1 Product identifier**
- **Trade name: APW Release Agent**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Not suitable for use in homemaker (DIY) applications.
- **Application of the substance / the mixture**  
Coating  
Only for trade users / technical specialists
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
**Rustins Ltd. Waterloo Road, London NW2 7TX United Kingdom**  
Phone: +44 (0)20 8450 4666 Fax: +44 (0)20 8452 2008; rustins@rustins.co.uk
- **1.4 Emergency telephone number:**  
+44 (0)20 8450 4666 OFFICE HOURS ONLY

\* **SECTION 2: Hazards identification**

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



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Eye Irrit. 2      H319 Causes serious eye irritation.

- **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**



GHS07    GHS09

- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P273                      Avoid release to the environment.  
P280                      Wear protective gloves / eye protection.  
P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313              If eye irritation persists: Get medical advice/attention.  
P391                      Collect spillage.
- **Additional information:** Contains < 1 % of components with unknown hazards to the aquatic environment.
- **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: 90640-32-7	Amine, C16-18-Alkyl-	1.0-<5.0%
EINECS: 292-550-5	⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Eye Dam. 1, H318;	
Reg.nr.: 01-2119473799-15	⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Skin Irrit. 2, H315	

- **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:**  
Personal protection for the First Aider.

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*Immediately remove any clothing soiled by the product.*

*In case of unconsciousness place patient stably in side position for transportation.*

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

**· After inhalation:**

*Take affected persons into fresh air and keep quiet.*

*Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.*

**· After skin contact:**

*Immediately wash with water and soap and rinse thoroughly.*

*Use skin protection cream for skin protection.*

*If skin irritation continues, consult a doctor.*

**· After eye contact:**

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Seek medical treatment.*

**· After swallowing: Do not induce vomiting; call for medical help immediately.**

**· 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:**

*Water haze*

*ABC powder*

*Foam*

*Carbon dioxide*

**· For safety reasons unsuitable extinguishing agents:**

*Water spray*

*Water with full jet*

**· 5.2 Special hazards arising from the substance or mixture**

*Formation of toxic gases is possible during heating or in case of fire.*

*In case of fire, the following can be released:*

*Carbon monoxide and carbon dioxide*

*Nitrogen oxides (NOx)*

**· 5.3 Advice for firefighters**

**· Protective equipment:**

*Do not inhale explosion gases or combustion gases.*

*Wear self-contained respiratory protective device.*

*Wear fully protective suit.*

**· Additional information**

*Remove undamaged containers from the danger zone.*

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

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

**· 6.1 Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment. Keep unprotected persons away.*

*Keep away from ignition sources.*

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- Ensure adequate ventilation
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Do not allow to penetrate the ground/soil.
  - In case of gas release or seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose of the material collected according to regulations.
- **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**
  - Ensure good ventilation/exhaustion at the workplace.
  - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - Do not inhale gases / fumes / aerosols.
  - Store in cool, dry place in tightly closed receptacles.
  - Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**
      - Store only in the original receptacle.
      - Prevent any seepage into the ground.
    - **Information about storage in one common storage facility:** Store away from oxidising agents.
    - **Further information about storage conditions:**
      - Store in cool, dry conditions in well sealed receptacles.
      - Store receptacle in a well ventilated area.
      - Protect from heat and direct sunlight.
      - Protect from frost.
    - **Recommended storage temperature:** + 10°C - + 30 °C
  - **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:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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· **DNELs**

**90640-32-7 Amine, C16-18-Alkyl-**

Inhalative	Long-term exposure - systemic effects	0.38 mg/m <sup>3</sup> (worker)
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· **PNECs**

**90640-32-7 Amine, C16-18-Alkyl-**

PNEC aqua	0.00026 mg/l (freshwater)
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PNEC sediment	3.76 mg/kg (freshwater)
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PNEC STP	0.55 mg/l
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PNEC soil	10 mg/kg
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Ensure good ventilation/exhaustion at the workplace.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Filter FFP2

· **Protection of hands:**

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

DIN EN 374

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

· **Penetration time of glove material**

Value for the permeation: Level  $\leq 6$  ( $> 480$  min.)

For special applications, it is recommended to verify the chemical resistance of the above stated protective gloves with the manufacturer.

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

· **As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

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Recommended thickness of the material:  $\geq 0.2$  mm  
Value for the permeation: Level  $\leq 3$  ( $> 60$  min)

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

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

· **General Information**

· **Appearance:**

Form: Pasty  
Colour: Light yellow  
Odour: Characteristic

· **Change in condition**

Melting point/freezing point: Undetermined.  
Initial boiling point and boiling range:  $> 300$  °C

· **Flash point:**  $> 100$  °C

· **Ignition temperature:**  $> 200$  °C

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

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

· **Vapour pressure at 20 °C:**  $< 1$  hPa

· **Density at 20 °C:**  $0,9$  g/cm<sup>3</sup> (DIN 51757)

· **Solubility in / Miscibility with water at 20 °C:**  $< 0,1$  g/l

· **Partition coefficient: n-octanol/water:** Not applicable

· **Viscosity:**

Dynamic: Not applicable  
Kinematic: Not applicable.  
VOC (EC) 0,0 %

· **9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**

· **10.1 Reactivity** No decomposition if used and stored according to specifications.

· **10.2 Chemical stability** No decomposition if used and stored according to specifications.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** Reacts with strong oxidising agents.

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- **10.6 Hazardous decomposition products:**  
No decomposition if used and stored according to specifications.  
Formation of toxic gases is possible during heating or in case of fire.

**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:**  
**90640-32-7 Amine, C16-18-Alkyl-**

Oral	LD 50	>2,000 mg/kg (rat) (OECD 401)
Dermal	LD 50	>2,000 mg/kg (rat) (similar to OECD 402)
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:** No further relevant information available.
- **Sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.
- **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** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**90640-32-7 Amine, C16-18-Alkyl-**

EC50/48h	0.13 mg/l (daphnia magna) (OECD 202)
EC50/72h	0.12 mg/l (desmodesmus subspicatus) (OECD 201)
LC50/96h	0.06-1.38 mg/l (pimephales promelas) (EPA OPPTS 850.1085)
NOEC (aqua chron.)	1 mg/l (daphnia magna) (21d)
	0.01 mg/l (desmodesmus subspicatus) (3d OECD 201)

· **12.2 Persistence and degradability**

**90640-32-7 Amine, C16-18-Alkyl-**

Biodegradation 75 % (28d)

· **12.3 Bioaccumulative potential**

**90640-32-7 Amine, C16-18-Alkyl-**

log Pow	7.6
BCF	173

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- **Behaviour in environmental systems:**
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
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.
- **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**  
Disposal must be made according to official regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**  
The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **European waste catalogue**

07 02 04*	other organic solvents, washing liquids and mother liquors
15 01 10*	packaging containing residues of or contaminated by hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3077
- **14.2 UN proper shipping name**
- **ADR** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amine, C16-18-Alkyl-)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amine, C16-18-Alkyl-), MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amine, C16-18-Alkyl-)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



- **Class** 9 Miscellaneous dangerous substances and articles.
- **Label** 9

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· <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> · <b>Special marking (IATA):</b>	Product contains environmentally hazardous substances: Amine, C16-18-Alkyl- Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b> · <b>Transport category</b> · <b>Tunnel restriction code</b>	5 kg Code: E1 3 E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5 kg Code: E1

**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
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
  - **National regulations:**
  - **Information about limitation of use:**  
Employment restrictions concerning pregnant and lactating women must be observed.  
Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

\* **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.

- **Relevant phrases**  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.

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*H318 Causes serious eye damage.*

*H373 May cause damage to organs through prolonged or repeated exposure.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

**· Classification according to Regulation (EC) No 1272/2008**

*Eye Irrit.2, H319*

*Aquatic Acute 1, H400*

*Aquatic Chronic 1, H410*

**Classification procedure**

*Calculation method*

*Calculation method*

*Calculation method*

**· Department issuing SDS: Abteilung Labor**

**· Contact: Frau S. Schaller**

**· 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 Organisation*

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

*VOC: Volatile Organic Compounds (USA, EU)*

*DNEL: Derived No-Effect Level (REACH)*

*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*

*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*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*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*

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