

FURSE EARTHING & LIGHTNING PROTECTION

# AG900 – Glue-down clip adhesive

## Safety Data Sheet (SDS)

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| ELIP GBNTG R&D      | 9AKK107680A9943       | A              | en                | 1/13 |

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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

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### 1.1. Product Identifier

Product Name: Furse Glue-down clip adhesive; AG900  
Pure substance/mixture: Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Adhesives and/or sealants.  
Uses advised against: Not to be used in production of toys or childcare articles

### 1.3. Details of the supplier of the safety data sheet

Company Name: ABB Furse (ABB Ltd.), Wilford Road, Nottingham NG2 1EB  
United Kingdom  
Contact: Mr. Surinder Kareer, Tel: +44 (0)115 964 3875

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## 2. HAZARDS IDENTIFICATION:

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### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified

### 2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: Not classified

Signal word: No signal word

#### Special provisions concerning the labelling of certain mixtures:

EUH208 - Contains Dioctyltinbis (acetylacetonate). May produce an allergic reaction

#### Precautionary Statements - EU (§28, 1272/2008):

P101 If medical advice is needed, have product container or label at hand  
P102 Keep out of reach of children  
P280 Wear protective gloves and eye/face protection

### 2.3. Other Hazards

#### General Hazards:

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

#### PBT and vPvB assessment:

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The components in this formulation do not meet the criteria for classification as PBT or vPvB

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Chemical Name                                 | EC No.    | CAS No     | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | Specific concentration limit (SCL) | REACH Registration Number |
|---|-----------|------------|----------|--|------------------------------------|---------------------------|
| Silane, ethenyltrimethoxy-                    | 220-449-8 | 2768-02-7  | 1 - <3   | Acute Tox. 4 (H332)<br>Flam. Liq. 3 (H226)<br>STOT RE 2 (H373)   |                                    | 01-2119513215-52<br>-XXXX |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 258-207-9 | 52829-07-9 | 0.1 - <1 | Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 |                                    | 01-2119537297-32<br>-XXXX |
| Dioctyltinbis(acetylacetonate)                | 483-270-6 | 54068-28-9 | 0.1 - <1 | STOT SE 2 (H371)<br>Skin Sens. 1 (H317)                          | Skin Sens. 1 ::<br>C>=5%           | 01-0000020199-67<br>-XXXX |

Full text of H- and EUH-phrases see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL.

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### 4. FIRST AID MEASURES:

#### 4.1. Description of first aid measures

**Inhalation:**

Remove to fresh air.

**Skin contact:**

Wash hands thoroughly after handling. Wash with plenty of soap and water. In the case of skin irritation or allergic reactions see a doctor.

**Eye contact:**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

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**Ingestion:** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors:** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

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### 5. FIRE FIGHTING MEASURES:

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#### 5.1. Extinguishing media

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

**Large Fire:** When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 metres (1000 feet) in all directions.

**Unsuitable Extinguishing Media:** Strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Halogenated hydrocarbons. Nitrogen oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

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### 6. ACCIDENTAL RELEASE MEASURES:

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#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Use personal protection equipment. Avoid contact with skin, eyes or clothing.

**For emergency responders:** Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil.

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### 6.3. Methods and material for containment and cleaning up

|                                 |  |
|---------------------------------|--|
| <b>Methods for Containment:</b> | Prevent further leakage or spillage if safe to do so.  |
| <b>Methods for cleaning up:</b> | Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. |

### 6.4. Reference to other sections

|                                     |   |
|-------------------------------------|---|
| <b>Reference to other sections:</b> | Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION<br>Section 13: DISPOSAL CONSIDERATIONS |
|-------------------------------------|---|

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## 7. HANDLING AND STORAGE:

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### 7.1. Precautions for safe handling

|  |  |
|--|--|
| <b>Advice on safe handling:</b>        | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.  |
| <b>General Hygiene Considerations:</b> | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.<br><br>Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                            |   |
|----------------------------|---|
| <b>Storage Conditions:</b> | Keep away from food, drink and animal feeding stuffs. Keep from freezing. |
|----------------------------|---|

### 7.3. Specific end use(s)

|                           |  |
|---------------------------|--|
| <b>Other Information:</b> | Recommendation(s). Observe technical data sheet. |
|---------------------------|--|

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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### 8.1. Control parameters

|                         |  |
|-------------------------|--|
| <b>Exposure Limits:</b> | Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. As Titanium dioxide (13463-67-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. |
|-------------------------|--|

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| Chemical Name        | European Union             | Ireland                     | United Kingdom                             |
|----------------------|----------------------------|-----------------------------|--|
| Diisononyl phthalate | -                          | TWA: 5 mg/m <sup>3</sup>    | STEL: 15 mg/m <sup>3</sup>                 |
| 28553-12-0           |                            | STEL: 15 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup>                   |
| Titanium dioxide     | -                          | TWA: 10 mg/m <sup>3</sup>   | STEL: 30 mg/m <sup>3</sup> total inhalable |
| 13463-67-7           |                            | TWA: 4 mg/m <sup>3</sup>    | STEL: 12 mg/m <sup>3</sup> respirable      |
|                      |                            | STEL: 30 mg/m <sup>3</sup>  | TWA: 10 mg/m <sup>3</sup> total inhalable  |
|                      |                            | STEL: 12 mg/m <sup>3</sup>  | TWA: 4 mg/m <sup>3</sup> respirable        |
| Methyl alcohol       | TWA: 200 ppm               | TWA: 200 ppm                | STEL: 250 ppm                              |
| 67-56-1              | TWA: 260 mg/m <sup>3</sup> | TWA: 260 mg/m <sup>3</sup>  | STEL: 333 mg/m <sup>3</sup>                |
|                      | S*                         | STEL: 600 ppm               | TWA: 200 ppm                               |
|                      |                            | STEL: 780 mg/m <sup>3</sup> | TWA: 266 mg/m <sup>3</sup>                 |
|                      |                            | Skin nota.                  | Skin                                       |

**Derived No Effect Level (DNEL):** No information available

**Predicted No Effect Concentration (PNEC):** No information available.

## 8.2. Exposure controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment:**

**Eye/Face Protection:** Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166

**Hand Protection:** Wear suitable gloves. Gloves must conform to standard EN 374.

**Skin and Body Protection:** Suitable protective clothing.

**Respiratory Protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

**Recommended filter type:** Brown.

**Environmental Exposure Controls:** Do not allow uncontrolled discharge of product into the environment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

### 9.1. Information on basic physical and chemical properties

|  |                          |                            |
|--|--------------------------|----------------------------|
| <b>Physical State:</b>                 | Liquid                   |                            |
| <b>Appearance:</b>                     | Paste                    |                            |
| <b>Colour:</b>                         | White                    |                            |
| <b>Odour:</b>                          | Characteristic           |                            |
| <b>Odour Threshold:</b>                | No information available |                            |
| <b>pH:</b>                             | No information available |                            |
| <b>Melting point / freezing point:</b> | No information available |                            |
| <b>Boiling point / boiling range:</b>  | No information available |                            |
| <b>Flash Point:</b>                    | No information available |                            |
| <b>Evaporation Rate:</b>               | No information available |                            |
| <b>Flammability (solid, gas):</b>      | No information available | Not applicable for liquids |
| <b>Flammability Limit in Air:</b>      |                          |                            |
| Upper flammability or explosive limits | No information available |                            |
| Lower flammability or explosive limits | No information available |                            |
| <b>Vapour Pressure:</b>                | No information available |                            |
| <b>Vapour Density:</b>                 | No information available |                            |
| <b>Relative Density:</b>               | 1.5                      |                            |
| <b>Water Solubility :</b>              | No information available |                            |
| <b>Solubility in Other Solvents:</b>   | No information available |                            |
| <b>Partition Coefficient:</b>          | No information available |                            |
| <b>Autoignition Temperature:</b>       | No information available |                            |
| <b>Decomposition Temperature:</b>      | No information available |                            |
| <b>Explosive Properties:</b>           | No information available |                            |
| <b>Oxidising Properties:</b>           | No information available |                            |
| <b>Kinematic Viscosity:</b>            | No information available |                            |
| <b>Dynamic Viscosity:</b>              | No information available |                            |

### 9.2. Other information

|                             |                          |
|-----------------------------|--------------------------|
| <b>Softening Point:</b>     | No information available |
| <b>Molecular Weight:</b>    | No information available |
| <b>Solvent content (%):</b> | No information available |
| <b>Solid content (%):</b>   | No information available |

|          |                |                 |      |       |      |
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|                         |                          |
|-------------------------|--------------------------|
| <b>Density:</b>         | No data available        |
| <b>Bulk Density:</b>    | No data available        |
| <b>VOC content (%):</b> | No information available |

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## 10. STABILITY AND REACTIVITY:

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### 10.1. Reactivity

Product cures with moisture.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data:

|                                  |       |
|----------------------------------|-------|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge  | None. |

### 10.3. Possibility of hazardous reactions

**Possibility of Hazardous Reactions:** None known.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep from freezing. Protect from moisture. Product cures with moisture.

### 10.5. Incompatible materials

Water.

### 10.6. Hazardous decomposition products

None under normal use and recommended storage conditions

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## 11. TOXICOLOGICAL INFORMATION:

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### 11.1. Information on toxicological effects

#### Information on likely routes of exposure:

##### Product Information:

No information or data specific to the product on this toxicological (health) effect is available.

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Based on available data, the classification criteria are not met. |
| <b>Eye contact:</b>  | Based on available data, the classification criteria are not met. |
| <b>Skin Contact:</b> | Based on available data, the classification criteria are not met. |

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**Ingestion:** Based on available data, the classification criteria are not met.

**Sensitisation:** No data available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin Corrosion/Irritation:** Not applicable.

**Serious eye damage/eye irritation:** Not applicable.

**Sensitisation:** Not applicable.

**Germ Cell Mutagenicity:** Not applicable.

**Carcinogenicity:** Not applicable.

**Reproductive Toxicity:** No information available.

**STOT - Single Exposure:** No information available.

**STOT - Repeated Exposure:** No information available.

**Target Organ Effects:** Eyes, Lungs, Respiratory system, Skin.

**Aspiration hazard:** Not applicable.

**Numerical measures of toxicity:**

**Acute Toxicity:**

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

ATEmix (inhalation-vapour) 431.00 mg/l

**Component Information**

**Toxicity Data:** Data obtained on the component(s) include

| Chemical Name  | Oral LD50                                  | Dermal LD50                          | Inhalation LC50                   |
|--|--|--------------------------------------|-----------------------------------|
| Silane, ethenyltri-methoxy- 2768-02-7                    | LD 50 = 7120 -7236 mg/kg (Rat)<br>OECD 401 | = 3360 µL/kg (Rabbit)                | -                                 |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | LD50 (rat)> 2000 mg/kg<br>OECD 423         | LD50 (rat) > 3 170 mg/kg<br>OECD 402 | = 500 mg/m <sup>3</sup> (Rat) 4 h |
| Diocetyl tinbis(acetylacetonate) 54068-28-9              | LD50 =2500 mg/kg (Rat)                     | LD50 >2000 mg/kg (Rat)               | -                                 |

## 12. ECOLOGICAL INFORMATION:

### 12.1. Toxicity

**Ecotoxicity:** Classification is shown in section 2 of this SDS

**Component Information:**

Data obtained on the component(s) include

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| Chemical Name  | Algae/aquatic plants  | Fish  | Crustacea   | M-Factor |
|--|---|---|---|----------|
| Silane, ethenyltri-methoxy- 2768-02-7                        | EC 50 (72h) > 957 mg/l<br>(Desmodesmus subspicatus) EU Method C.3 | L50 (96h) = 191 mg/l<br>(Oncorhynchus mykiss) | EC50(48hr) 168.7mg/l<br>(Daphnia magna)             |          |
| Bis(2,2,6,6-tetramethyl-4-pi peridyl) sebacate<br>52829-07-9 | EC50 72Hr 0.705 mg/l<br>(Pseudokirchnerella subcapitata)          | LC50 (96h) = 5.29 mg/l<br>(Oryzias latipes)   | LC50 48Hr 8.58 mg/l<br>(Daphnia magna)              |          |
| Diocetyl tinbis(acetylacetonate)<br>54068-28-9               | -   | LC50 (96h) = 86 mg/L<br>Fish (Static)         | EC50 (48h) = 58.6 mg/L Waterflea<br>(Daphnia magna) |          |

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

**Partition coefficient:**

No information available

## 12.4. Mobility in soil

**Mobility in soil:**

No information available.

## 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6. Other adverse effects

No information available

## Endocrine Disruptor Information

# 13. DISPOSAL CONSIDERATIONS:

## 13.1. Waste treatment methods

**Waste from Residues/Unused Products:**

Dispose of wastes in an approved waste disposal facility.

**Contaminated Packaging:**

Handle contaminated packages in the same way as the product itself.

**European Waste Catalogue:**

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

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## 14. TRANSPORT INFORMATION:

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### Land transport (ADR/RID)

|      |                             |                |
|------|-----------------------------|----------------|
| 14.1 | UN Number:                  | Not regulated  |
| 14.2 | Proper Shipping Name:       | Not regulated  |
| 14.3 | Transport hazard class(es): | Not regulated  |
| 14.4 | Packing Group:              | Not regulated  |
| 14.5 | Environmental hazards:      | Not applicable |
| 14.6 | Special Provisions:         | None           |

### IMDG

|      |  |                          |
|------|--|--------------------------|
| 14.1 | UN Number:   | Not regulated            |
| 14.2 | Proper Shipping Name:  | Not regulated            |
| 14.3 | Transport hazard class(es):  | Not regulated            |
| 14.4 | Packing Group:   | Not regulated            |
| 14.5 | Marine Pollutant:  | Np                       |
| 14.6 | Special Provisions:  | None                     |
| 14.7 | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available |

### Air transport (ICAO-TI / IATA-DGR)

|      |                             |                |
|------|-----------------------------|----------------|
| 14.1 | UN Number:                  | Not regulated  |
| 14.2 | Proper Shipping Name:       | Not regulated  |
| 14.3 | Transport hazard class(es): | Not regulated  |
| 14.4 | Packing Group:              | Not regulated  |
| 14.5 | Environmental hazards:      | Not applicable |
| 14.6 | Special Provisions:         | None           |

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## 15. REGULATORY INFORMATION:

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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

#### EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical Name        | CAS No     | Restrictions on use |
|----------------------|------------|---------------------|
| Diisononyl phthalate | 28553-12-0 | 52[a]               |

**52.** Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children.

**EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009:**

Not applicable

**Persistent Organic Pollutants:**

Not applicable

**15.2. Chemical safety assessment**

None

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**16. OTHER INFORMATION:**

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**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H332 - Harmful if inhaled

H226 - Flammable liquid and vapour

H373 - May cause damage to organs through prolonged or repeated exposure

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects H371 - May cause damage to organs

H317 - May cause an allergic skin reaction

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: Exposure controls and personal protection**

TWA    TWA (time-weighted average)    STEL    STEL (Short Term Exposure Limit)

Ceiling    Maximum limit value    \*    Skin designation

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

STOT (RE): Specific target organ toxicity - Repeated exposure

STOT (SE): Specific target organ toxicity - Single exposure

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EWC: European Waste Catalogue

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

### 16.1. Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### 16.2. Revision history

| Rev. | Page (P)<br>Chapt. (C) | Description                     | Date Dept./Init.          |
|------|------------------------|---------------------------------|---------------------------|
| A    | All                    | First issue as 9AKK107680A9943. | 07/2020 GBNTG R&D<br>APM. |
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