

SAFETY DATA SHEET

Revision Date : 30.June 2015
Date of first issue : 30.November 2000
SDS Number : F-31011

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

1.1 Product identifier

Trade name : AR-450DV / DM-350DV

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

Use of the Substance/Mixture : Reprographic agents (Developer)

1.3 Details of the supplier of the safety data sheet

Company : SHARP Electronics Europe Ltd
4 Furzeground Way, Stockley Park, Uxbridge, Middlesex, UB11 1EZ, UK

Telephone : +49 40 2376-0

E-mail address of person : compliance@sharp.eu
responsible for the SDS

1.4 Emergency telephone number

+49 40 2376-2525 (from 9:00 to 17:00 CET/CEST, English, German Only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not Classified as hazardous

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : None

Signal word : None

Hazard statements : None

Precautionary statements : None

2.3 Other hazards

Potential dust explosion hazard.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical Name	CAS-No.	EC-No.	Classification (REGULATION (EC) No1272/2008)	Concentration (%)
Ceramic material and wares, chemicals	66402-68-4	266-340-9	Not classified	90-99
Polyester resin	Confidential	Confidential	Not classified	1-10
Silicon resin	Confidential	Confidential	Not classified	1-5
Carbon black	1333-86-4	215-609-9	Not classified	0,1-1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
 When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.
 If not breathing, give artificial respiration.
 If breathing is difficult, give oxygen.
 Get medical attention.
- In case of skin contact : Remove contaminated clothing and shoes.
 Get medical attention if irritation develops and persists.
 Wash clothing before reuse.
 Thoroughly clean shoes before reuse.
- In case of eye contact : If in eyes, rinse well with water.
 Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, Get medical attention.
 Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Dust contact with the eyes can lead to mechanical irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

- Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local
circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to
do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Follow safe handling advice and personal protective
equipment recommendations.

6.2 Environmental precautions

- Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if it is safe to do so.
Retain and dispose of contaminated water.
Local authorities should be advised if significant spillages
cannot be contained.

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6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
- Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
- Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
- Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.
- You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Technical measures : Static electricity may accumulate and ignite suspended dust causing an explosion.
- Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- Advice on safe handling : Do not breathe dust. Do not swallow. Avoid contact with eyes.
- Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed.
- Minimize dust generation and accumulation.
- Keep away from heat and sources of ignition.
- Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : When using do not eat, drink or smoke.
- Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage : Keep tightly closed. Keep in a cool, well-ventilated place.
- areas and containers : Be stored in accordance with the particular national regulations.

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Advice on common storage : Do not be stored together with the following product types:
 Strong oxidizing agents
 Organic peroxides
 Explosives
 Gases

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Carbon black	1333-86-4	TWA	3.5 mg/m ³	GB EH40
		STEL	7 mg/m ³	GB EH40

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
 Apply measures to prevent dust explosions.

Personal protective equipment

Eye protection : Not required under intended use
 Hand protection : Not required under intended use
 Skin and body protection : Not required under intended use
 Respiratory protection : Not required under intended use

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Powder
 Colour : Black
 Odour : Odourless
 Odour Threshold : No data available
 pH : No data available
 Melting point/freezing point : Not applicable
 Initial boiling point and boiling range : No data available
 Flash point : Not applicable
 Evaporation rate : Not applicable
 Flammability (solid, gas) : Not classified as a flammability hazard
 Upper explosion limit : No data available
 Lower explosion limit : No data available

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Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Density	: ca. 5,0 g/cm ³
Bulk density	: ca. 2,0 g/cm ³
Solubility(ies)	
Water solubility	: Negligible
Partition coefficient: noctanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust can form an explosive mixture in the air.
Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

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Acute toxicity

Acute oral toxicity : LD50 : > 2.000 mg/kg
Acute inhalation toxicity : No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No sensitization

Germ cell mutagenicity

AMES : negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

Not relevant

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Dispose of it in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging : Dispose of it as an unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

- 14.1 UN number** : None
- 14.2 UN proper shipping name** : None
- 14.3 Transport hazard class(es)** : None
- 14.4 Packing group** : None
- 14.5 Environmental hazards** : None
- 14.6 Special precautions for user** : Not applicable
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of other abbreviations

- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
- GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency,<http://echa.europa.eu/>

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