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

1.1 Product identifier

Trade name : AR-455DV

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 EU: SHARP Manufacturing France S.A.

Route de Bollwiller, 68360 Soultz Haut Rhin, France

UK: Sharp Business Systems UK PLC

Northern House, Moor Knoll Lane, East Ardsley, Wakefield, WF3 2EE, United Kingdom

Telephone : +49 40 2376-0

E-mail address of person : compliance@sharp.eu

responsible for the SDS

1.4 Emergency telephone number

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

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 : Get medical attention if irritation develops and persists.

Wash clothing before reuse.

In case of eye contact : If in eyes, rinse well with water.

Get medical attention if irritation develops and persists.

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 (NOx)

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.

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.

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



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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.

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.

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



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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/m3	GB EH40
		STEL	7 mg/m3	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
Thermal hazards : Not required under intended use

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : 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 Vapour pressure : Not applicable Relative vapour density : Not applicable Particle characteristics : $30\sim100~\mu$ m Density : ca. 5,0 g/cm3 Bulk density : ca. 2,0 g/cm3

Solubility(ies)

Water solubility : Negligible

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Not applicable

No data available Auto-ignition temperature

No data available Decomposition temperature

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

Partition coefficient: noctanol/water

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 hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Inhalation

> Skin contact Ingestion Eye contact

Acute toxicity

Acute oral toxicity : LD50 : > 2000 mg/kg : No data available Acute inhalation toxicity

Skin corrosion/irritation

No skin irritation

Serious eye damage/eye irritation

No eye irritation

Respiratory or skin sensitisation

No sensitization

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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 hazard

Not relevant

11.2 Information on other hazards

No data available

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 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

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.

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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 or ID number None 14.2 UN proper shipping name None None 14.3 Transport hazard class(es) 14.4 Packing group None 14.5 Environmental hazards None

14.6 Special precautions for user : Not applicable

14.7 Maritime transport in bulk according to IMO instruments

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 : Not applicable

and the Council concerning the export and import of

dangerous chemicals

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that deplete : Not applicable

the ozone layer

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)

Further information

Sources of key data used to compile

Internal technical data, data from raw material SDSs, OECD

eChem Portal search results and European Chemicals the Safety Data Sheet

Agency, http://echa.europa.eu/

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 is designed only as a guidance for safe handling,



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