

Revision Date: 17.October 2023Date of first issue: 1.June 2003SDS Number: F-31211

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

#### 1.1 Product identifier

Trade name : AR-202DV

#### 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

+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 (%)
Iron powder	7439-89-6	231-096-4	Not classified	90-99
Styrene-Acrylate copolymer	Confidential	Confidential	Not classified	1-10
Carbon black	1333-86-4	215-609-9	Not classified	0,1-1
Silicon resin	Confidential	Confidential	Not classified	0,1-1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures	
4.1 Description of first aid measur	es
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 medica
	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	: 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 : Tre	eat 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 sub	ostan	ice 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 firefight	ers:	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.		
<b>SECTION 6: Accidental release measurement</b>	sure	s		
6.1 Personal precautions, protective equ	uipm	ent 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.

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, inc	luding 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 regulation
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

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Physical state	:	powder	
Colour	:	black	
Odour	:	odourless	
Odour Threshold	:	No data available	
рН	:	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∼100 µ m	
Density	:	ca. 7,0 g/cm3	
Bulk density	:	ca. 2,0 g/cm3	
Solubility(ies)			
Water solubility	:	negligible	



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Partition coefficient: noctanol/w	vater :	Not applic	able		
Auto-ignition temperature	:	No data a	vailable		
Decomposition temperature	:	No data a	vailable		
Viscosity	:	Not applic	able		
Explosive properties	:	Not explo	sive		
Oxidizing properties	:	The subst	ance or mixt	ure is not classifie	d as oxidizing.
9.2 Other information					
No data available					
SECTION 10: Stability and re	activity				
10.1 Reactivity					
Not classified as a reactivity ha	azard.				
10.2 Chemical stability					
Stable under normal conditions	s.				
10.3 Possibility of hazardous re	actions				
Hazardous reactions	:	Dust can	orm an explo	osive mixture in th	e air.
		Can react	with strong c	oxidizing agents.	
10.4 Conditions to avoid					
Conditions to avoid	:	None kno	wn.		
10.5 Incompatible materials					
Materials to avoid	:	Oxidizing	agents		
10.6 Hazardous decomposition	products				
No hazardous decomposition	products are	known.			
SECTION 11: Toxicological in	nformation	1			
11.1 Information on hazard clas	ses as defir	ned in Regu	lation (EC)	No 1272/2008	
Information on likely routes of	exposure :				
		Skin conta	ict		
		Ingestion Eye conta	ct		
Acute toxicity		Eye coma	υ		
Acute oral toxicity	:	LD50 : > 2	2000 mg/kg		
Acute inhalation toxicity	:	No data a	vailable		
Skin corrosion/irritation					
No skin irritation					
Serious eye damage/eye irritatio	on				
No data available					
Respiratory or skin sensitisatio	'n				
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 met	hods
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.
<b>SECTION 14: Transport informa</b>	ion
14.1 UN number or ID 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 Maritime transport in bulk acc	rding to IMO instruments
Remarks	: Not applicable for product as supplied.
SECTION 15: Regulatory inform	ation
15.1 Safety, health and environmer	tal regulations/legislation specific for the substance or mixture
Regulation (EC) No 649/2012 of t	e European Parliament : Not applicable
and the Council concerning the ex	port and import of
dangerous chemicals	
REACH - Candidate List of Substa	nces of Very High : Not applicable
Concern for Authorisation (Article	j9).
Regulation (EC) No 1005/2009 or	substances that deplete : Not applicable
the ozone layer	
Regulation (EC) No 850/2004 on	ersistent organic pollutants : Not applicable
15.2 Chemical Safety Assessment	
A Chemical Safety Assessment ha	s not been carried out.
<b>SECTION 16: Other information</b>	
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)

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
the Safety Data Sheet		eChem Portal search results and European Chemicals
		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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