

PAINT SAFETY DATA SHEET



SAFETY DATA SHEET

MZ-90 MATT SILVER

F H Brundle Product Ref.: 2902M Date of issue: 5 March 2018 Regulation EC No 1907/2006 Art.31

Ref.Nr.: BDS002331_3_20180305 (EN)

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

1.1 Product identifier

Product name: MZ-90 Matt Silver

Product code: 2902M

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

Paints

1.3 Details of the supplier of the safety data sheet

Company name: F H Brundle

Lamson Road Ferry Lane North

Rainham RM13 9YY

UK

Tel: +44 (0) 1708 253545
Fax: +44 (0) 1708 253550
Email: sales@brundle.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 1282 834545 (Mon- Fri 08:30 - 16:30)

Web: www.fhbrundle.co.uk

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical: Aerosols, category 1 Extremely flammable aerosol. Pressurised

container: May burst if heated.

Health: Eye irritation, category 2 Causes serious eye irritation. Specific

target organ toxicity - single exposure, category 3. May cause drowsiness or dizziness. Specific Target Organ Toxicity -

Repeated Exposure Category 2. May cause damage to organs

through prolonged or repeated exposure.

Environment: Hazardous to the aquatic environment, acute category 1 Very

toxic to aquatic life. Hazardous to the aquatic environment, chronic category 1 Very toxic to aquatic life with long lasting

effects.

Classification based on calculation method.

Labelling according to Regulation (EC) No 1272/2008

Product Identifier:

Contains Carbohydrates

Hazardous pictogram(s):









Signal word: Danger

Hazard statement(s): H222: Extremely flammable aerosol

H229: Pressurised container: May burst if heated

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

H373: May cause damage to organs through prolonged or

repeated exposure

H410: Very toxic to aquatic life with long lasting effects

Precautionary statement(s): P102: Keep out of reach of children

P210: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking

P211: Do not spray on an open flame or other ignition source

P251: Do not pierce or burn, even after use

P261-1: Avoid breathing vapours/spray

P280: Wear protective gloves/protective clothing/eye protection/

face protection

P337/313: If eye irritation persists: Get medical advice/attention

P333/313: If skin irritation or rash occurs: Get medical advice/

attention

P410/412: Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F

P501-2: Dispose of contents/container to an authorised waste

collection point

Contains: 2-butanone oxime; ethyl methyl ketoxime; ethyl

methyl ketone oxime Fatty acids, C18-unsatd., dimers, compds.

with coco alkylamines May produce an allergic reaction

2.3 Other hazards

Supplemental Hazard information:

No information available.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
01-2119472128-37	115-10-6	204-065-8	25-50	Flam. Gas 1, Press. Gas	H220, H280	Α
01-2119467174-37	7440-66-6	231-175-3	10-25	Aquatic Acute 1, Aquatic Chronic 1	H400, H410	
01-2119475514-35		(921-024-6)	<10	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2	H225, H315 , H336, H304, H411	B, Q
01-2119457290-43	78-93-3	201-159-0	<10	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336	Α
01-2119458049-33		(919-446-0)	<10	Flam. Liq. 3, Asp. Tox. 1, STOT SE 3, STOT RE 1, Aquatic Chronic 2	H226, H304, H336, H372	B, Q
01-2119463881-32	1314-13-2	215-222-5	<5	Aquatic Acute 1, Aquatic Chronic 1	H400, H410	В
-	68647-95-0	614-682-8	<1	Skin Irrit. 2, Skin Sens. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1	H315, H317, H373, H400, H410	-
01-2119539477-28	96-29-7	202-496-6	<1	Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1	H351, H312, H318, H317	В
01-2119484630-38	71-36-3	200-751-6	<2.5	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3	H226, H302, H315, H318, H335, H336	В
	number 01-2119472128-37 01-2119467174-37 01-2119475514-35 01-2119457290-43 01-2119458049-33 01-2119463881-32 - 01-2119539477-28	number CAS-III. 01-2119472128-37 115-10-6 01-2119467174-37 7440-66-6 01-2119475514-35 78-93-3 01-2119457290-43 78-93-3 01-2119463881-32 1314-13-2 - 68647-95-0 01-2119539477-28 96-29-7	number CAS-III. EC-III 01-2119472128-37 115-10-6 204-065-8 01-2119467174-37 7440-66-6 231-175-3 01-2119475514-35 (921-024-6) 01-2119457290-43 78-93-3 201-159-0 01-2119458049-33 (919-446-0) 01-2119463881-32 1314-13-2 215-222-5 - 68647-95-0 614-682-8 01-2119539477-28 96-29-7 202-496-6	number CAS-III. EC-III WW % 01-2119472128-37 115-10-6 204-065-8 25-50 01-2119467174-37 7440-66-6 231-175-3 10-25 01-2119475514-35 (921-024-6) <10	number CAS-III. EC-III W/W % Hazard Class and Category 01-2119472128-37 115-10-6 204-065-8 25-50 Flam. Gas 1, Press. Gas 01-2119467174-37 7440-66-6 231-175-3 10-25 Aquatic Acute 1, Aquatic Chronic 1 01-2119475514-35 (921-024-6) <10	number CAS-III. EC-III ww % Hazard class and category Hazard statement 01-2119472128-37 115-10-6 204-065-8 25-50 Flam. Gas 1, Press. Gas H220, H280 01-2119467174-37 7440-66-6 231-175-3 10-25 Aquatic Acute 1, Aquatic Chronic 1 H400, H410 01-2119475514-35 (921-024-6) <10

Explanation notes

A: substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

Q: The CAS-no is only an indicative identifier to be used outside the EU for global inventory entries.

Section 4: First aid measures

4.1 Description of first aid measures

Contact with eyes: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Contact with skin: Take off contaminated clothing and wash before reuse. IF ON

SKIN: Wash with plenty of soap and water. If skin irritation

occurs: Get medical advice/attention

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER or doctor/physician if

you feel unwell

Ingestion: If swallowed accidentally, do not induce vomiting and seek

medical advice

^{(*} Explanation phrases : see chapter 16)

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Excessive inhalation of solvent vapours may give rise to

nausea, headaches and dizziness

Ingestion: May cause gastrointestinal disturbances Symptoms : sore

throat, abdominal pain, nausea, vomiting

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: Irritating to eyes Symptoms : redness and pain

4.3 Indication of any immediate medical attention and special treatment needed

General Advice: If you feel unwell, seek medical advice (show the label where

possible If symptoms persist always call a doctor

Section 5: Fire-fighting measures

5.1 Extinguishing media

foam, carbon dioxide or dry agent

5.2 Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C Forms hazardous decomposition products CO,CO2

5.3 Advice for fire-fighters

Keep container(s) exposed to fire cool, by spraying with water In case of fire, do not breathe fumes

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources Ensure adequate ventilation Wear suitable protective clothing and gloves

6.2 Environmental precaution

Do not allow to enter public sewers and watercourses If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and materials for containment and cleaning up

Absorb spillage in suitable inert material Place in appropriate container

6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Equipment should be earthed. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Do not breathe aerosols or vapours. Ensure adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after use. Wear protective gloves/ protective clothing/eye protection/face protection. Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Keep out of reach of children

7.3 Specific end use(s)

Paints

Section 8: Exposure controls/personal protection

8.1 Control parameters (exposure limits)

Hazardous ingredient	CAS-nr.	method	method	
EU established exposure limits:				
dimethyl ether	115-10-6	TWA	1000 ppm	
butanone; ethyl methyl ketone	78-93-3	TWA	200 ppm	
		STEL	300 ppm	
National established exposure limits, United Kingdom				
dimethyl ether	115-10-6	TWA	400 ppm	
		STEL	500 ppm	
butan-1-ol; n-butanol	71-36-3	STEL	50 ppm	
butanone; ethyl methyl ketone	78-93-3	TWA	200 ppm	
		STEL	300 ppm	

8.2 Exposure controls

Control procedures: Ensure adequate ventilation Keep away from heat and sources

of ignition Take precautionary measures against static discharges

Personal protection: Take precautions to avoid contact with skin and eyes when

handling the product. Ensure adequate ventilation Wear

suitable protective gloves

Inhalation: In case of insufficient ventilation, wear suitable respiratory

equipment

Recommended respiratory protection: Air purifying respirator equiped with organic gas/vapor cartridge

(type AX)

Hands and skin: When handling the product wear chemical-resistant gloves

(standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed

part-way through

Recommended gloves: Nitrile

Eyes: Wear safety eyewear according to EN 166

Inhalation: Wear safety eyewear according to EN 166

Environmental protection: Avoid release to the environment. Collect spillage

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : physical state: DME propelled liquid

Colour: Grey

Odour: Characteristic odour

pH: Not applicable

Boiling point/range: Not available

Flash point: < 0 °C

Evaporation rate: Not applicable Explosion limits : upper limit: Not available

Lower limit: Not available Vapour pressure: Not available

Relative density: 1.45 g/cm3 (@ 20°C) Solubility in water: Insoluble in water

Auto-ignition: > 200 °C

9.2 Other information

VOC = volatile organic compounds: 640 g/l

Section 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known if used for its intended purpose

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

Avoid overheating

10.5 Incompatible materials

Strong oxidising agent

10.6 Hazardous decomposition products

CO, CO2

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Based on available data the classification criteria are not met

Skin corrosion/irritation: Based on available data the classification criteria are not met

Serious eye damage/irritation: Causes serious eye irritation

Respiratory or skin sensitisation: Based on available data the classification criteria are not met

Germ cell mutagenicity: Based on available data the classification criteria are not met

Carcinogenicity: Based on available data the classification criteria are not met

Toxicity for reproduction: Based on available data the classification criteria are not met

STOT-single exposure: May cause drowsiness or dizziness

STOT repeated exposure: May cause damage to organs through prolonged or repeated

exposure

Aspiration hazard: Based on available data the classification criteria are not met

Information on likely routes of exposure

Inhalation: Inhalation of solvent vapours may give rise to nausea,

headaches and dizziness

Ingestion: May cause gastrointestinal disturbances

Skin contact: May cause irritation

Eye contact: Irritating to eyes

Toxicological data:

Hazardous ingredient	CAS-nr.	method	
dimethyl ether	115-10-6	LC50 inhal.rat	309 mg/l
zinc oxide	1314-13-2	LC50 inhal.rat	> 5.7 mg/l
butan-1-ol; n-butanol	71-36-3	LD50 oral rat	2292 mg/kg
		LC50 inhal.rat	> 17.76 mg/l
		LD50 derm.rabit	3430 mg/kg
butanone; ethyl methyl ketone	78-93-3	LD50 oral rat	> 2000 mg/kg
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	96-29-7	LD50 oral rat	2326 mg/kg
		LD50 derm.rabit	1000 mg/kg
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic		LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 10 mg/l
		LD50 derm.rabit	> 4 mg/kg

Section 12: Ecological information

12.1 Toxicity

Hazardous to the aquatic environment, acute category 1. Very toxic to aquatic life. Hazardous to the aquatic environment, chronic category 1. Very toxic to aquatic life with long lasting effects

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
dimethyl ether	115-10-6	IC50 algae	154.9 mg/l
		LC50 fish	4.1 mg/l
		EC50 daphnia	4.4 mg/l
zinc oxide	1314-13-2	IC50 algae	0.136 mg/l
		LC50 fish	0.169 mg/l
		EC50 daphnia	1.7 mg/l
butan-1-ol; n-butanol	71-36-3	LC50 fish	1376 mg/l
		EC50 daphnia	1328 mg/l
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	96-29-7	IC50 algae	11.8 mg/l
		LC50 fish	> 100 mg/l
		EC50 daphnia	201 mg/l
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic		IC50 algae	4.6-10 mg/l
		LC50 fish	10-30 mg/l
		EC50 daphnia	10-22 mg/l

12.2 Persistence and degradability

No experimental data available

12.3 Bioaccumulative potential

No experimental data available

12.4 Mobility in soil

Insoluble in water

12.5 Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No experimental data available GWP (global warming potential): .5

Section 13: Disposal considerations

13.1 Waste treatment methods

Product: This material and its container must be disposed of in a safe

way. Do not discharge into drains or the environment, dispose

to an authorised waste collection point

National regulations: Disposal should be in accordance with local, state or national

legislation

Section 14: Transport information

14.1 UN number

UN number: 1950

14.2 UN proper shipping name

Shipping name:

AEROSOLS (Zinc)

14.3 Transport hazard class(es)

Class:

2.1

ADR/RID - Classification code:

5F

14.4 Packing group

Packing group:

Not applicable

14.5. Environmental hazards

ADR/RID - Environmentally hazardous:

Yes

IMDG - Marine pollutant:

Marine pollutant

IATA/ICAO - Environmentally hazardous:

Yes

14.6 Special precautions for user

ADR/RID - Tunnelcode:

(D)

IMDG - Ems:

F-D, S-U

IATA/ICAO - PAX:

203

IATA/ICAO - CAO:

203

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Section 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC

15.2. Chemical Safety Assessment

No information available

Other information

*Explanation hazard statements: H220 : Extremely flammable gas

H225: Highly flammable liquid and vapour

H226: Flammable liquid and vapour

H280 : Contains gas under pressure; may explode if heated

H302 : Harmful if swallowed

H304: May be fatal if swallowed and enters airways

H312: Harmful in contact with skin

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H318 : Causes serious eye damage

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H351: Suspected of causing cancer

H372: Causes damage to organs through prolonged or

repeated exposure

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

H411: Toxic to aquatic life with long lasting effects

acronyms and synonyms: TWA = time weight average

STEL = short time exposure limit

VOC = volatile organic compounds

PBT = persistant bioaccumulative toxic

vPvB = very persitant very bioaccumulative

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