



SAFETY DATA SHEET
HAMMERED FINISH BLACK
F H Brundle Product Ref.: 29H1B & 29H5B
Version 4.50 - Date of issue: 10 December 2018

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

1.1 Product identifier

Product name: Hammered Finish Black
Product code: 29H1B & 29H5B
For colours NOT containing lead chromate pigmentation

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

Use of the Substance/Mixture Restricted to industrial and professional application only

1.3 Details of the supplier of the safety data sheet

Company name: F H Brundle
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Ferry Lane North
Rainham
RM13 9YY
UK

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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, (CLP)

Flammable Liquids, Category 3	H226 Flammable liquid and vapour
Skin Irritation, Category 2	H315 Causes skin irritation
Eye Irritation, Category 2	H319 Causes serious eye irritation
Specific Target Organ Toxicity, Single Exposure, Category 3	H335 May cause respiratory irritation
Specific Target Organ Toxicity, Repeated Exposure, Category 2	H373 May cause damage to organs through prolonged or repeated exposure

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008, (CLP)

Hazardous pictograms:



Signal word:

Hazard statements:

Precautionary statements:

Supplemental hazard information:

Warning

H226 Flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated exposure

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P264 Wash hands thoroughly after handling

P280 Wear protective gloves, protective clothing, eye protection and face protection

P370+P378 In case of fire: Use alcohol-resistant foam to extinguish

P403+P235 Store in a well-ventilated place. Keep cool

P501 Dispose of contents and container to waste disposal site in accordance with national regulations

EUH208 Contains cobalt bis(2-ethylhexanoate), 2- butanone oxime. May produce an allergic reaction

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description of the mixture: Mixture of resins, solvents, pigments and additives

Hazardous Components

Chemical name	EC Number	CAS Number	REACH Registration Number	% (Weight)	Classification [Regulation (EC) No. 1272/2008]
xylene	215-535-7	1330-20-7	01-2119488216-32	25%-50%	H226, H304, H312, H315, H319, H332, H335, H373
ethylbenzene	202-849-4	100-41-4	01-2119489370-35	<8.4%	H225, H332
naphtha (petroleum), hydrotreated heavy (D40)	265-150-3	64742-48-9	01-2119463258-33	0.1%-1.0%	H226, H304, H336

2-ethylhexanoic acid, zirconium salt	245-018-1	22464-99-9	01-2119979088-21	0.1%-1.0%	H361d
2-butanone oxime	202-496-6	96-29-7	01-2119539477-28	0.1%-1.0%	H312, H317, H318, H351
Calcium isononanoate	258-901-1	53988-05-9	01-2119978299-15	0.1%-1.0%	H302, H319
Cobalt bis (2-ethylhexanoate)	205-250-6	136-52-7	01-2009524678-29	0.1%-1.0%	H317, H319, H360F, H400, H412

Additional Information:

For the full text of the Hazard Statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General Notes:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice
If inhaled:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration
In case of skin contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners
In case of eye contact:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice
If swallowed:	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting
Self-protection of the first aider:	None

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

None

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Alcohol resistant foam, CO2, powders and water spray/mist
Unsuitable extinguishing media:	Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required
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5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or watercourses

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8

6.2 Environmental precaution

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Clean preferably with a detergent - avoid use of solvents

6.4 Reference to other sections

None

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

- Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits
- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded
- Electrical equipment should be protected to the appropriate standard
- Mixture may charge electrostatically: always use earthing leads when transferring from one container to another
- Operators should wear anti-static footwear and clothing and floors should be of the conducting type
- Isolate from sources of heat, sparks and open flame
- No sparking tools should be used
- Avoid skin and eye contact
- Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture
- Avoid inhalation of dust from sanding
- Smoking, eating and drinking should be prohibited in application area
- For personal protection see Section 8
- Never use pressure to empty: container is not a pressure vessel
- Always keep in containers of same material as the original one
- Comply with the health and safety at work laws
- Do not allow to enter drains or watercourses

Advice on protection against fire and explosion:

Vapours are heavier than air and may spread along floors

Vapours may form explosive mixtures with air

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in accordance with the Dangerous Substances and Explosive Atmospheres Regulations, 2002, (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR

Notes on joint storage:

Store away from oxidising agents, from strongly alkaline and strongly acid materials

Additional information on storage conditions:

Observe label precautions

Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat and direct sunlight

Keep container tightly closed

Keep away from sources of ignition

No smoking

Prevent unauthorised access

Containers which are opened must be carefully resealed and kept upright to prevent leakage

The principles contained in the HSE guidance note, Chemical Warehousing: The Storage of Packaged Dangerous Substances, should be observed when storing this product

7.3 Specific end use(s)

None

Section 8: Exposure controls/personal protection

8.1 Control parameters

Limits for occupational exposure and/or biological limit values.

Chemical name	Physical state	LTEL - 8hr TWA		STEL - 15min		Notes
		ppm	mg/m ³	ppm	mg/m ³	
xylene		50	220	100	441	Sk, BMGV
ethylbenzene		100	441	125	552	Sk
naphtha (petroleum), hydrotreated heavy (D40)			350			
2-ethylhexanoic acid, zirconium salt	as Zr		5		10	NAOSH(Ire)
2-butanone oxime		3	10	10	33	NAOSH(Ire)
cobalt bis(2-ethylhexanoate)	as Co		0.1			Sen

LTEL - Long Term Exposure Limit, STEL - Short Term Exposure Limit, TWA - Time-Weighted Average.

ppm - parts per million by volume, mg/m³ - milligrams per cubic metre.

BMGV - Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Carc - Capable of causing cancer and/or heritable genetic damage.

Sen - Capable of causing occupational asthma.

Sk - Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

General advice:

Provide adequate ventilation

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

If these are not sufficient to maintain concentrations of particles and solvent vapour below the OEL, suitable respiratory protection must be worn

8.2.2 Personal protection equipment

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators

Hand protection:

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals

For prolonged or repeated handling, use Polyvinyl Alcohol (PVA) or Viton Rubber (FluorRubber)

The breakthrough time must be greater than the end use time of the product

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed

Gloves should be replaced regularly and if there is any sign of damage to the glove material

Always ensure that gloves are free from defects and that they are stored and used correctly

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred

Eye protection:

Use safety eyewear designed to protect against splash of liquids

Skin protection:

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre

8.2.3 Environmental exposure controls

General advice:

Do not allow to enter drains or watercourses

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance - Physical state:	Liquid
Colour:	Various
Odour:	Aromatic hydrocarbons
Odour threshold - Lower:	Not determined
Higher:	Not determined
pH	Not determined
Melting point/freezing point (°C):	-39.3
Initial boiling point and boiling range (°C):	137-140 760 mmHg
Flash point (°C):	25
Evaporation rate:	0.77 (BuAc=1)
Flammability/explosive limits - Lower %:	0.8
Higher %:	6.7
Vapour pressure:	0.82 kPa 20
Vapour density (air=1):	3.7
Relative density (g/ml):	0.98-1.15
Solubility(ies):	Miscible with organic solvents
Partition coefficient:	3.2 log Pow
Auto-ignition temperature (°C):	488
Decomposition temperature (°C):	Not determined
Viscosity:	~3.4 poise
Explosive properties:	May form explosive mixtures with air
Oxidising properties:	Not determined

9.2 Other information

None

Section 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage and handling conditions.
(See Section 7)

10.3 Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions

10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Carbon monoxide and dioxide, smoke, oxides of nitrogen

Section 11: Toxicological information

There are no data available on the mixture itself

The mixture has been assessed following the conventional method of the Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC) No. 1272/2008, (CLP) and classified for toxicological hazards accordingly. See Sections 2 and 3 for details

11.1 Information on toxicological effects

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhoea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact

Section 12: Ecological information

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

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

No data available

12.6. Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Do not allow to enter drains or watercourses.

The European List of Waste classification of this product, when disposed of as waste, is

Waste Code: **Name of Waste (according to Commission Decision 2000/532/EC):**

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions

Section 14: Transport information

14.1 UN number

ADR/RID/ADN:	1263
IMDG:	1263
ICAO:	1263

14.2 UN proper shipping name

PAINT

14.3 Transport hazard class(es)

ADR/RID/ADN Class:	3
ADR/RID/ADN Class:	Class 3: Flammable liquids
ADR Label number:	3
IMDG Class:	3
ICAO Class/Division:	3
Transport labels:	



14.4 Packing group

ADR/RID/ADN:	III
IMDG:	III
ICAO:	III

14.5. Environmental hazards

None

14.6 Special precautions for user

ADR Tunnel Restriction Code:	(D/E)
IMDG EmS:	F-E, S-E
IMDG Stowage Category:	A

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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 information in this Safety Data Sheet is required pursuant to:

- Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No.1907/2006, (REACH)
- Classification, Labelling and Packaging of substances and mixtures, Regulation (EC) No.1272/2008, (CLP)
- The Dangerous Substances and Explosive Atmospheres Regulations, 2002, (DSEAR)
- The Control of Substances Hazardous to Health Regulations, 2002, (COSHH)
- The Health and Safety at Work etc. Act, 1974, (HSWA)

Approved Codes of Practice and Guidance notes relevant to this Safety Data Sheet:

- The European Chemicals Agency (ECHA) Guidance on the compilation of safety data sheets, Version 2.1
- CEPE Guideline for Safety Data Sheets, 9th Edition
- HSE Approved Code of Practice and Guidance, Dangerous Substances and Explosive Atmospheres
- HSE guidance note, Chemical Warehousing: The Storage of Packaged Dangerous Substances
- HSE publication, EH40/2005 Workplace exposure limits

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier

Section 16: Other information

Full text of Hazard Statements referred to in Section 3.

H225 : Highly flammable liquid and vapour
H226 : Flammable liquid and vapour
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
H332 : Harmful if inhaled
H335 : May cause respiratory irritation
H336 : May cause drowsiness or dizziness
H351 : Suspected of causing cancer
H360F : May damage fertility
H361d : Suspected of damaging the unborn child
H373 : May cause damage to organs through prolonged or repeated exposure
H400 : Very toxic to aquatic life
H412 : Harmful to aquatic life with long lasting effects

Revision history

Date	Version	Amendments
10/12/18	4.50	Changes to Section 3.2, 16
02/12/16	4.00	Changes to Sections 2.1, 2.2, 3.2, 8.1, 16
24/06/16	3.11	Changes to Section 3.2, 16

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown on the Technical Data Sheet without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this Safety Data Sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Whilst every effort has been made to ensure the accuracy of the information supplied. F.H. Brundle cannot be held responsible for any errors or omissions. This product must only be employed for its original intended use. Any other use is wrong and potentially dangerous. Installation must be carried out in full compliance with current regulations. F.H. Brundle cannot be held liable for any damages resulting from wrongful, erroneous or negligent use.

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