SAFETY DATA SHEET 4002B

Low Temperature Heat Resisting

Aluminium H46/60

SECTION1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	H46/60 Low Temperature Heat Resisting Aluminium
Product number	H46/60

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

1.3. Details of the supplier of the safety datasheet

Supplier Technical Paint Services
Rear of 27 Southcote Road
Bournemouth Dorset BH1 3SH

Contactperson

enquiries@technicalpaintservices.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)1202 295570 (Not24 Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 -H 226
Health hazards	S kin Irrit.2 - H 315
Environmental hazards	Aquatic Chronic 2 -H 411
Classification (67/548/EECor 1999/45/EC)	N ;R51/53. R 10,R 67.
Human health	In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.
Environmental	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Physicochemical	The product is flam mable. Vapours may form explosive mixtures with air.

2.2. Label elements

Pictogram

Signal word W arning

Hazard statements	H 226 Flammable liquid and vapour. H 315 Causes skin irritation. H 411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF O N SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before use. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION3: Composition/information on ingredients

3.2. Mixtures

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC 10-30%

CA S number:64742-95-6

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 3 -H 226 A sp. Tox.1 -H 304 Aquatic Chronic 2 -H 411	X n;R 65. N ;R51/53. R 10,R 66,R 67.

1,2,4-TRIMETHYLBENZENE 5-10%

C A S number:95-63-6 E C num ber: 202-436-9

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 3 -H 226 A cute Tox.4 -H 332 S kin Irrit.2 -H 315 E ye Irrit.2 -H 319 S T O T SE 3 -H 335 Aquatic Chronic 2 -H 411	R 10 X n;R 20 X i;R36/37/38 N ;R51/53

MESITYLENE 1-5%

C A S number:108-67-8 EC num ber: 203-604-4

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 3 -H 226 S T O T SE 3 -H 335 Aquatic Chronic 2 -H 411	R 10 X i;R37 N ;R51/53

XYLENE	1-5%
CAS number:1330-20-7	EC number: 215-535-7

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 3 -H 226 Acute Tox.4 -H 312 Acute Tox.4 -H 332 Skin Irrit.2 -H 315 Asp. Tox.1 -H 304	R10 Xn;R20/21 Xi;R38

CUMENE	1-5%
CAS number:98-82-8	EC number: 202-704-5

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 3 -H 226 STOT SE 3 -H 335 Asp. Tox.1 -H 304 Aquatic Chronic 2 -H 411	R10 Xn;R65 Xi;R37 N;R51/53

2-METHOXY-1-METHYLETHYLACETATE	<1%
CAS number:108-65-6	EC number: 203-603-9

Classification	Classification (67/548/EECor 1999/45/EC)
Flam.Liq.3 -H 226	R10 Xi;R36

ETHYLBENZENE	<1%
CAS number:100-41-4	EC number: 202-849-4

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 2 -H 225 Acute Tox.4 -H 332 Asp. Tox.1 -H 304	F;R11 Xn;R20

CYCLOHEXANONE	<1%
CAS number:108-94-1	EC number: 203-631-1

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq.3 -H 226 Acute Tox.4 -H 332	R10 Xn; R20

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	<1%
CAS number:64742-48-9	EC number:265-150-3

Classification	Classification (67/548/EECor 1999/45/EC)
Flam. Liq. 3 -H 226 STOT SE 3 -H 336 Asp. Tox.1 -H 304	Xn;R65. R10,R66.

1-METHOXY-2-PROPANOL	<1%
CAS number:107-98-2	EC number: 203-539-1
Classification Flam.Liq.3 -H 226 STOT SE 3 -H 336	Classification (67/548/EECor 1999/45/EC) R10

BUTANOL-norm	<1%
CAS number:71-36-3	EC number: 200-751-6
Classification Flam. Liq. 3 -H 226 Acute Tox.4 -H 302 Skin Irrit.2 -H 315 Eye Dam.1 -H 318 STOT SE 3 -H 335,H 336	Classification (67/548/EECor 1999/45/EC) R10 Xn;R22 Xi;R37/38,R41 R67

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Wear suitable protective equipment, including gloves, goggles/faceshield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or run off entering drains, sewers or watercourses.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions: Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store in tightly-closed, original container in a dry, cool and w ell-ventilated place. Keep only in the original container.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

XYLENE

Long-term exposure limit (8-hour TW A):W EL 50 ppm (Sk) 220 m g/m 3(Sk)
Short-term exposure limit (15-minute):W EL 100 ppm (Sk) 441 m g/m 3(S k)

CUMENE

Long-term exposure limit (8-hour TW A):W EL 25 ppm (Sk) 125 m g/m 3(Sk)
Short-term exposure limit (15-minute):W EL 50 ppm (Sk) 250 m g/m 3(Sk)

2-METHOXY-1-METHYLETHYLACETATE

Long-term exposure limit (8-hour TW A):W EL 50 ppm (Sk) 274 m g/m 3(Sk)
Short-term exposure limit (15-minute):W EL 100 ppm (Sk) 548 m g/m 3(Sk)

ETHYLBENZENE

Long-term exposure limit (8-hour TW A):W EL 100 ppm (Sk) 441 m g/m 3(S k)
Short-term exposure limit (15-minute):W EL 125 ppm (Sk) 552 m g/m 3(S k)

CYCLOHEXANONE

Long-term exposure limit(8-hourT W A):W EL 10 ppm (Sk)
Short-term exposure limit (15-minute):W EL 20 ppm (Sk)

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

Long-term exposure limit (8-hour TW A):W EL 1000 m g/m ³

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TW A):W EL 100 ppm (Sk) 375 m g/m 3(S k)
Short-term exposure limit (15-minute):W EL 150 ppm (Sk) 560 m g/m 3(S k)

BUTANOL-norm

Long-term exposure limit (8-hour TW A):W EL
Short-term exposure limit (15-minute):W EL 50 ppm (Sk) 154 m g/m 3(Sk)
WEL = Workplace Exposure Lim it

Ingredient comments: WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Use protective gloves.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour	Various colours.
Odour	Characteristic.
Flash point	23-55°C
Relative density	1.20 -1.40

9.2. Other information

Volatile organic compound	This product contains a maximum V O C content of 460 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid	A void contact with the following materials: Acids. Oxidising agents.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbondioxide (CO 2).

SECTION11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - dermal

ATEdermal (mg/kg)	39,113.34
Acute toxicity - inhalation ATEinhalation (gasesppm)	38,360.28
ATE inhalation (vapours mg/l)	93.77
ATE inhalation (dusts/mists mg/l)	12.79

Inhalation	Prolonged inhalation of high concentrations may damage respiratory system .
Ingestion	Liquid irritates mucous membranes and may cause abdominal pain if swallowed.
Skin contact	Product has a defatting effect on skin. M ay cause allergic contact eczema. Prolonged or repeated exposure may cause severe irritation.
Eye contact	May cause severe eye irritation.
Target organs	Skin, Eyes Respiratory system, lungs

SECTION12: Ecological Information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION13: Disposal considerations

13.1. Waste treatment methods

Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION14: Transport information

14.1. UN number

UN No. (ADR/RID)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263
UN No. (ADN)	1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PAINT

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

Propershippingname(ADN) PAINT

14.3.

Transport hazard class(es)

ADR/RIDclass	3
ADR/RIDclassification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels

14.4. Packing group

ADR/RIDpacking group	III
IMDGpacking group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS F-E ,S -E

ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to AnnexII of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

National regulations	The C hem icals(Hazard Inform ation and Packaging forSupply)R egulations 2009 (SI2009 N o.716).
Guidance	Workplace Exposure Limits EH 40. Introduction to Local Exhaust Ventilation H S(G)37. CHIP for everyone H SG 228. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date	22/04/2016
Revision	2
Supersedes date	24/02/2014
SDS number	32042
Risk phrases in full	R 10 Flammable. R 20 Harmful by inhalation. R 20/21 H armful by inhalation and in contact with skin. R 36/37/38 Irritating to eyes, respiratory system and skin. R 37 Irritating to respiratory system. R 38 Irritating to skin. R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 65 Harmful: may cause lung damage if swallowed. R 66 Repeated exposure may cause skin dryness or cracking. R 67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H 225 Highly flammable liquid and vapour. H 226 Flammable liquid and vapour. H 302 Harmful if swallowed. H 304 May be fatal if swallowed and enters airways. H 312 Harmful in contact with skin. H 315 Causes skin irritation. H 318 Causes serious eye damage. H 319 Causes serious eye irritation. H 332 Harmful if inhaled. H 335 May cause respiratory irritation. H 336 May cause drowsiness or dizziness. H 411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.