1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **HIGH TEMPERATURE BLACK PAINT**

Article number: **P330**

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

Product category: PC9a: Coatings and paints, thinners, paint removers.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
TYGRIS Industrial
Unit 31, Kyle Road Industrial Estate
Irvine
Ayrshire
KA12 8LE
Tel +44 (0) 1294 311 066
Fax +44 (0) 1294 277 115
Email technical@tygrisindustrial.com

Further information obtainable from: Technical Department

1.4 Emergency telephone number:

Tel +44 (0) 1294 311 066

2. Hazards identification

2.1. Classification of the substance or mixture

Physical hazards: Aerosol 1 - H222, H229

Health hazards: Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards: Aquatic Chronic 2 – H411

2.2. Label elements

Hazard Statements:
H222: Extremely flammable aerosol.
H229: Pressurised container: may burst if heated
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms:
GHS02: Flame
GHS07: Exclamation mark
GHS09: Environmental

Signal Word: Danger

Precautionary Statements:
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.
P260: Do not breathe spray.
P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501: Dispose of contents/container in accordance with local regulations.

Contains: Naphtha (petroleum), hydrotreated light Solvent naphtha (petroleum), light arom

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

3. Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT
(Registration number: 01-2119475514-35)

EC	CAS	Index number	CLP Classification	Percent
921-024-6	-	-	Flam. Liq. 2 - H225 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411 Skin Irrit. 2 - H315 STOT SE 3 - H336	25-50%

PROPANE
(Registration number: 01-2119486944-21-xxxx)

200-827-9	74-98-6	601-003-00-5	Flam. Gas 1 - H220 Press. Gas C - H280	12.5-20%

BUTANE
(Registration number: 01-2119474691-32-xxxx)

203-448-7	106-97-8	601-004-00-0	Flam. Gas 1 - H220 Press. Gas C - H280	12.5-20%

ISOBUTANE
(Registration number: 01-2119485395-27-xxxx)

200-857-2	75-28-5	601-004-00-0	Flam. Gas 1 - H220 Press. Gas C - H280	10-12.5%

XYLENE
(Registration number: 01-2119488216-32-xxxx)

215-535-7	1330-20-7	601-022-00-9	Flam. Liq. 3 - H226 Acute Tox. 4 - H312 & H332 Skin Irrit. 2 - H315	5-10%

MICA

601-648-2	12001-26-2	-	Substance with a Community workplace exposure limit	2.5-5%

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.
(Registration number: 01-2119455851-35-xxxx)

918-668-5	-	-	Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411 STOT SE 3 - H335-H336	2.5-5%

CARBON BLACK
(Registration number: 01-2119384822-32-xxxx)

215-609-9	1333-86-4	-	Substance with a Community workplace exposure limit	1-2.5%

ETHYLBENZENE
(Registration number: 01-2119489370-35-xxxx)

202-849-4	100-41-4	601-023-00-4	Flam. Liq. 2 - H225 STOT RE 2 - H373 Asp. Tox. 1 - H304 Acute Tox. 4 - H332 Aquatic Chronic 3 - H412	1-2.5%

SOLVENT NAPHTHA (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC
(Registration number: 01-2119486291-36-xxxx)

926-605-8	-	-	Flam. Liq. 2 - H225 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	1-2.5%

POLYBUTYL TITANATE
(Registration number: 01-2119455851-35-xxxx)

500-687-1 (NLP)	162303-51-7	-	Flam. Liq. 3 - H226 Eye Dam. 1 - H318 Skin Irrit. 2 - H315	1-2.5%

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

4. First aid measures

4.1. Description of first aid measures

Skin contact: Immediately wash with water and soap and rinse thoroughly.

Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion: Drink plenty of water and provide fresh air. Call for a doctor immediately.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Important symptoms / effects: No further relevant information available.

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

Immediate / special treatment: No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Extinguishing media: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media: Water with full jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Special protective equipment for firefighters: No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation. Keep away from ignition sources.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace.

Fire and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool location. Observe official regulations on storing packagings with pressurised containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

BUTANE 106-97-8

Long-term exposure limit (8-hour TWA)	Short-term exposure limit (15-minute)	Carcinogenic
WEL 600 ppm, 1450 mg/m³	WEL 750 ppm, 1810 mg/m³	If more than 0.1% of buta-1.3-diene

XYLENE 1330-20-7

WEL 50 ppm, 220 mg/m³	WEL 100 ppm, 441 mg/m³ Sk; BMGV	-

MICA 12001-26-2

WEL 10* 0.8** mg/m³ *total inhalable **respirable	-	-

CARBON BLACK 1333-86-4

WEL 3.5 mg/m³	WEL 7 mg/m³	-

ETHYLBENZENE 100-41-4

WEL 441 mg/m³, 100 ppm	WEL 552 mg/m³, 125 ppm	-

Biological limit values:

XYLENE 1330-20-7

BMGV 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Use protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Aerosol
Colour:	Black
Odour:	Solvent-like
Initial boiling point and range:	Not applicable, as aerosol.
Flash point:	Not applicable, as aerosol.
Ignition temperature:	> 200°C (> 392°F)
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	Lower: 0.6 Vol % Upper: 10.9 Vol %
Vapour pressure:	3500 hPa (2625 mm Hg) @ 20°C (68°F)
Density:	0.705 g/cm³ (5.883 lbs/gal) @ 20°C (68°F)
Solubility(ies):	Not miscible or difficult to mix.
Solvent content:	87.8% organic solvents
EU-VOC:	619.0 g/l
EU-VOC in %:	87.80%
Solids content:	15.4%

9.2. Other information

Other information:	No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

Reactivity:	No further relevant information available.

10.2. Chemical stability

Chemical stability:	No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Hazardous reactions:	No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid:	No further relevant information available.

10.5. Incompatible materials

Materials to avoid:	No further relevant information available.

10.6. Hazardous decomposition products

Hazardous decomposition products:	No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

Oral	RAT	LD50	>5840	mg/kg
Dermal	RBT	LD50	>2920	mg/kg
Inhalative	RAT	4H LC50	>2	mg/l

BUTANE 106-97-8

Inhalative	RAT	4H LC50	658000	mg/m^3

XYLENE 1330-20-7

Oral	RAT	LD50	3523	mg/kg
Dermal	RBT	LD50	2000	mg/kg
Inhalative	RAT	4H LC50	22.1	mg/m^3

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

Oral	RAT	LD50	(OECD401) 3592	mg/kg
Dermal	RBT	LD50	(OECD402) >3160	mg/kg
Inhalative	RAT	4H LC50	>6193	mg/m^3

CARBON BLACK 1333-86-4

Oral	RAT	LD50	10000	mg/kg

ETHYLBENZENE 100-41-4

Oral	RAT	LD50	3500	mg/kg
Dermal	RBT	LD50	17800	mg/kg

SOLVENT NAPHTHA (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Oral	RAT	LD50	>5000	mg/kg
Dermal	RBT	LD50	>2000	mg/kg
Inhalative	RAT	4H LC50	>20	mg/m^3

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

Oral	RAT	LD50	>5000	mg/kg
Dermal	RBT	LD50	>2600	mg/kg
Inhalative	RAT	4H LC50	>193	mg/m^3

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

Oral	RAT	LD50	>5840	mg/kg
Dermal	RAT	LD50	>2920	mg/kg
Inhalative	RAT	4H LC50	>25290	mg/m^3
Inhalative	LEUCISCUS IDUS	96H LC50	2.5	mg/m^3

Primary irritant effect

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Inhalation: No data available.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT-single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

12. Ecological information

12.1. Toxicity

Hazardous ingredients:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

DAPHNIA MAGNA	48H EC50	3	mg/l
PSEUDOKIRCHNERIELLA SUBCAPITATA	72H LC50	30-100	mg/l
FISH	96H LC50	11.4	mg/l

XYLENE 1330-20-7

DAPHNIA MAGNA	48H EC50	7.4	mg/l
FISH	96H LC50	13.5	mg/l

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

DAPHNIA MAGNA	24H EC50	150	mg/l
DAPHNIA MAGNA	48H EC50	7.4	mg/l
FISH	96H LC50	3.77	mg/l

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

LEUCISCUS IDUS	48H EC50	1328	mg/l

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

DAPHNIA MAGNA	24H EC50	>10	mg/l
FISH	24H EC50	>100	mg/l
FISH	48H LC50	4924	mg/l
PIMEPHALES PROMELAS	96H LC50	2.5	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

Additional ecological information: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

General information: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue: 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances.
15 01 04 metallic packaging.

Uncleaned packaging: Non contaminated packagings may be recycled.

14. Transport information

UN Number (ADR): 1950

UN Number (IMDG): 1950

UN Number (IATA): 1950

14.2 UN proper shipping name

Proper shipping name (ADR): 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

Proper shipping name (IMDG): AEROSOLS (Naphtha (petroleum), hydrotreated light, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT

Proper shipping name (IATA): AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR class: 2,5F Gases

ADR label: 2.1

IMDG, IATA class: 2.1

IMDG, IATA label: 2.1

Transport labels:

14.4. Packing group

Packing group: Not applicable.

14.5 Environmental hazards

Marine pollutant: No.

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

Warning:	Gases
EmS:	F-D, S-U
Stowage code:	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation code:	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow “separated from” class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable.

Transport/Additional information:

ADR/IMDG Limited quantities (LQ)	1L
ADR/IMDG Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
ADR/IMDG Transport category:	2
ADR/IMDG Tunnel restriction code:	D
UN “Model Regulation”:	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I:	None of the ingredients is listed.
Seveso category:	P3a FLAMMABLE AEROSOLS E2 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements:	150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements:	500 t
Chemical safety assessment:	No chemical safety assessment has been carried out.

16. Other information

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Phrases used in s.2 and s.3:

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.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

Phrases used in s.2 and s.3:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Unit 31, Kyle Road Industrial Estate
Irvine, Ayrshire KA12 8LE. Tel: +44 (0) 1294 311 066
technical@tygrisindustrial.com