

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

### 1.1 Product identifier

**Trade name:** HIGH TEMPERATURE ALUMINIUM PAINT

**Article number:** P334

### 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](mailto: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

### 2.2. Label elements

**Hazard Statements:** H222: Extremely flammable aerosol.  
H229: Pressurised container: may burst if heated  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.  
H412: Harmful to aquatic life with long lasting effects.

**Hazard pictograms:** GHS02: Flame  
GHS07: Exclamation mark



**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:** acetone, xylene, 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:

##### ACETONE

(Registration number: 01-2119471330-49-XXXX)

EC	CAS	Index number	CLP Classification	Percent
200-662-2	67-64-1	606-001-00-8	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 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%
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##### 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	10-12.5%
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##### 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%
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##### XYLENE

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

215-535-7	1330-20-7	601-022-00-9	Flam. Liq. 3 - H226 STOT RE 2 - H373 Asp. Tox. 1 - H304 Acute Tox. 4 - H312 & H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	5-10%
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##### 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%
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##### 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	2.5-5%
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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

<b>Skin contact:</b>	Generally the product does not irritate the skin.
<b>Eye contact:</b>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>Ingestion:</b>	Drink plenty of water and provide fresh air. Call for a doctor immediately.
<b>Inhalation:</b>	Supply fresh air; consult doctor in case of complaints.

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

<b>Important symptoms / effects:</b>	No further relevant information available.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Immediate / special treatment:</b>	No further relevant information available.
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## 5. Firefighting measures

### 5.1 Extinguishing media

<b>Extinguishing media:</b>	CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Unsuitable extinguishing media:</b>	Water with full jet.

### 5.2. Special hazards arising from the substance or mixture

<b>Exposure hazards:</b>	No further relevant information available.
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### 5.3. Advice for fire-fighters

<b>Special protective equipment for firefighters:</b>	No special measures required.
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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions:</b>	Ensure adequate ventilation. Keep away from ignition sources.
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### 6.2. Environmental precautions

<b>Environmental precautions:</b>	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.
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### 6.3. Methods and material for containment and cleaning up

<b>Clean-up procedures:</b>	Ensure adequate ventilation.
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### 6.4. Reference to other sections

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

ACETONE 67-64-1

Long-term exposure limit (8-hour TWA)	Short-term exposure limit (15-minute)	Carcinogenic
WEL 500 ppm, 1210 mg/m <sup>3</sup>	WEL 1500 ppm, 3620 mg/m <sup>3</sup>	-

BUTANE 106-97-8

WEL 600 ppm, 1450 mg/m <sup>3</sup>	WEL 750 ppm, 1810 mg/m <sup>3</sup>	If more than 0.1% of buta-1.3-diene
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XYLENE 1330-20-7

WEL 50 ppm, 220 mg/m <sup>3</sup>	WEL 100 ppm, 441 mg/m <sup>3</sup> Sk; BMGV	-
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ETHYLBENZENE 100-41-4

WEL 441 mg/m <sup>3</sup> , 100 ppm	WEL 552 mg/m <sup>3</sup> , 125 ppm	-
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#### Biological limit values:

XYLENE 1330-20-7

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

Not required.

### Eye protection:

Tightly sealed goggles.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>State:</b>	Aerosol
<b>Colour:</b>	Silver
<b>Odour:</b>	Solvent-like
<b>Initial boiling point and range:</b>	Not applicable, as aerosol.
<b>Flash point:</b>	Not applicable, as aerosol.
<b>Ignition temperature:</b>	365°C (689°F)
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	Lower: 1.5 Vol % Upper: 13.0 Vol %
<b>Vapour pressure:</b>	3500 hPa (2625 mm Hg) @ 20°C (68°F)
<b>Density:</b>	0.695 g/cm <sup>3</sup> (5.8 lbs/gal) @ 20°C (68°F)
<b>Solubility(ies):</b>	Not miscible or difficult to mix.
<b>Solvent content:</b>	96.4% organic solvents
<b>EU-VOC:</b>	670.1 g/l
<b>EU-VOC in %:</b>	96.41%
<b>Solids content:</b>	3.4%

### 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:

ACETONE 67-64-1

Oral	RAT	LD50	5800	mg/kg
Dermal	RBT	LD50	20000	mg/kg
Inhalative	RAT	4H LC50	39	mg/m <sup>3</sup>

BUTANE 106-97-8

Inhalative	RAT	4H LC50	658000	mg/m <sup>3</sup>
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XYLENE 1330-20-7

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

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 <sup>3</sup>

ETHYLBENZENE 100-41-4

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

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Oral	RAT	LD50	>15000	mg/kg
Dermal	RBT	LD50	>3160	mg/kg
Inhalative	RAT	4H LC50	4951	mg/m <sup>3</sup>

#### 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:

ACETONE 67-64-1

DAPHNIA MAGNA	48H EC50	8800	mg/l
DAPHNIA MAGNA	48H LC50	2262	mg/l
FISH	96H LC50 (static)	5540	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

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

ALGAE	24H EC50	>1000	mg/l
DAPHNIA MAGNA	48H LC50	>1000	mg/l
FISH	96H LC50	>1000	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.

**Ecotoxicological effects:** Harmful to fish.

**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.

### 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
- Proper shipping name (IMDG):** AEROSOLS
- 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.

#### 14.6 Special precautions for user

<b>Warning:</b>	Gases
<b>EmS:</b>	F-D, S-U
<b>Stowage code:</b>	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.
<b>Segregation code:</b>	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

<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR/IMDG Limited quantities (LQ)</b>	1L
<b>ADR/IMDG Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
<b>ADR/IMDG Transport category:</b>	2
<b>ADR/IMDG Tunnel restriction code:</b>	D
<b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

### 15. Regulatory information

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

##### Directive 2012/18/EU

<b>Named dangerous substances - ANNEX I:</b>	None of the ingredients is listed.
<b>Seveso category:</b>	P3a FLAMMABLE AEROSOLS
<b>Qualifying quantity (tonnes) for the application of lower-tier requirements:</b>	150 t
<b>Qualifying quantity (tonnes) for the application of upper-tier requirements:</b>	500 t
<b>Chemical safety assessment:</b>	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.  
H304: May be fatal if swallowed and enters airways.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

**Phrases used in s.2 and s.3:** 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 Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**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.