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

1.1 Product identifier

Trade name: **WHITE PRIMER PAINT**

Article number: **P304**

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Tygris Industrial
Unit 31
Kyle Road Industrial Estate
Irvine
Ayshire
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

Classification according to Regulation (EC) No 1272/2008

GHS02 flame
Flam. Aerosol 1 H222-H229 Extremely flammable aerosol.
Pressurised container: May burst if heated.

GHS07
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant
R36: Irritating to eyes.

F+; Extremely flammable
R12: Extremely flammable.

N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment

The product has to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Warning! Pressurised container.
Has a narcotising effect.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal Word

Danger

Hazard-determining components of labelling

Acetone
N-Butyl Acetate
Butan-1-ol

Hazard statements

H222-H229 Extremely flammable aerosol. 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.

Precautionary statements

P102 Keep out of reach of children.
P260 Do not breathe spray.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P251 Pressurized container: Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
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.

Additional information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3. Composition/information on ingredients

3.2 Chemical characterisation Mixtures

Description Mixture of substances listed below with nonhazardous additions.

ACETONE	25-50%
Index No. 606-001-00-8	REACH Registration No. 01-2119471330-49-xxxx
CAS: 67-64-1	EINECS: 200-662-2
Classification (EC 1272/2008) Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	Classification (67/548/EEC) Xi R36 F R11 R66-67
DIMETHYL ETHER	20-25%
Index No. 603-019-00-8	REACH Registration No. 01-2119472128-37-xxxx
CAS: 115-10-6	EINECS: 204-065-8
Classification (EC 1272/2008) Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas C, H280	Classification (67/548/EEC) F+ R12
N-BUTYL ACETATE	5-10%
Index No. 607-025-00-1	REACH Registration No. 01-2119485493-29-xxxx
CAS: 123-86-4	EINECS: 204-658-1
Classification (EC 1272/2008) Flam. Liq. 3, H226 STOT SE 3, H336	Classification (67/548/EEC) R10-66-67
PROPANE	5-10%
Index No. 601-003-00-5	REACH Registration No. 01-2119486944-21-xxxx
CAS: 74-98-6	EINECS: 200-827-9
Classification (EC 1272/2008) Flam. Gas 1, H220 Press. Gas C, H280	Classification (67/548/EEC) F+ R12
2-METHOXY-1-METHYLETHYL ACETATE	5-10%
Index No. 607-195-00-7	REACH Registration No. 01-2119475791-29-xxxx
CAS: 108-65-6	EINECS: 203-603-9
Classification (EC 1272/2008) Flam. Liq. 3, H226	Classification (67/548/EEC) R10
BUTANE	5-10%
Index No. 601-004-00-0	REACH Registration No. 01-2119474691-32-xxxx
CAS: 106-97-8	EINECS: 203-448-7
Classification (EC 1272/2008) Flam. Gas 1, H220 Press. Gas C, H280	Classification (67/548/EEC) F+ R12

ISOBUTANE	5-10%
Index No. 601-004-00-0	REACH Registration No. 01-2119485395-27-xxxx
CAS: 75-28-5	EINECS: 200-857-2
Classification (EC 1272/2008) Flam. Gas 1, H220 Press. Gas C, H280	Classification (67/548/EEC) F+ R12
BUTAN-1-OL	1-2.5%
Index No. 603-004-00-6	REACH Registration No. 01-2119484630-38-xxxx
CAS: 71-36-3	EINECS: 200-751-6
Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	Xn R22 Xi R37/38-41 R10-67
NITROCELLULOSE (NITROGEN CONTENT <12.6%)	1-2.5%
Index No.	REACH Registration No.
CAS: 9004-70-0	EINECS:
Flam. Sol. 1, H228	F R11
TRIZINC BIS(ORTHOPHOSPHATE)	0.1-1%
Index No. 030-011-00-6	REACH Registration No. 01-2119485044-40-xxxx
CAS: 7779-90-0	EINECS: 231-944-3
Aquatic Acute 1, H400; Aquatic Chronic 1, H410	N R50/53

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

Inhalation Supply fresh air; consult doctor in case of complaints.

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

Skin contact Generally the product does not irritate the skin.

Eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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

No further relevant information available.

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

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing Media

Suitable extinguishing agents	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents	Water with full jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment	No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

6.2. 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

Ensure adequate ventilation.

6.4. 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

Ensure good ventilation/exhaustion at the workplace.

Information about 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

Requirements to be met by storerooms and receptacles

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

Protect from heat and direct sunlight.

7.3. Specific end use(s)

No further relevant information available.

8. Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace

Name	STD	WEL - 8 Hrs		WEL - 15 Min	
ACETONE	WEL	500 ppm	1210 mg/m³	1500 ppm	3620 mg/m³
DIMETHYL ETHER	WEL	400 ppm	766 mg/m³	500 ppm	958 mg/m³
N-BUTYL ACETATE	WEL	150 ppm	724 mg/m³	200 ppm	966 mg/m³
BUTANE	WEL	600 ppm	1450 mg/m³	750 ppm	1810 mg/m³
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm Sk	274 mg/m³	100 ppm	548 mg/m³
BUTAN-1-OL	WEL			50 ppm Sk	154 mg/m³

WEL = Workplace Exposure Limits

Additional information The lists valid during the making were used as basis.

8.2. Exposure controls

Personal 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

Material of gloves Not required.

Penetration time of glove material Not required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information	
Appearance	
Form	Aerosol
Colour	According to product specification
Odour	Characteristic.
Odour threshold	Not determined.
pH-value	Not determined.
Change in condition	
Melting point/Melting range	Undetermined.
Boiling point/Boiling range	Not applicable, as aerosol.
Flash point	< 0 °C (< 32 °F) Not applicable, as aerosol.
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	240 °C (464 °F)
Decomposition temperature	Not determined.
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	2.6 Vol %
Upper	26.2 Vol %
Vapour pressure at 20 °C (68 °F)	4000 hPa (3000 mm Hg)
Density at 20 °C (68 °F)	0.82816 g/cm³ (6.911 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water)	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.

Solvent content	
Organic solvents	87.5 %
EU-VOC	724.6 g/l
EU-VOC in %	87.50 %
Solids content	8.2 %
9.2. Other information	No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Thermal decomposition / conditions to be avoided No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification

ACETONE		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	39 mg/m3 (rat)
DIMETHYL ETHER		
Inhalative	LC50 / 4 h	308 mg/m3 (rat)
N-BUTYL ACETATE		
Oral	LD50	10770 mg/kg (rat)
Dermal	LD50	>17600 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>21.0 mg/m3 (rat)
BUTANE		
Inhalative	LC50 / 4 h	658000 mg/m3 (rat)
2-METHOXY-1-METHYLETHYL ACETATE		
Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	35.7 mg/m3 (rat)
BUTAN-1-OL		
Oral	LD50	2292 mg/kg (rat)
Dermal	LD50	3430 mg/kg (rabbit)
Inhalative	LC50 / 4 h	17.76 mg/m3 (rat)
TRIZINC BIS(ORTHOPHOSPHATE)		
Oral	LD50	522 mg/kg (mouse) >5000 mg/kg (rat)

Primary irritant effect

on the skin No irritant effect.

on the eye Irritating effect.

Sensitisation No sensitising effects known.

Additional toxicological information The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12. Ecological information

12.1 Toxicity

Aquatic toxicity

ACETONE	
EC50 / 48 h	8800 mg/l (daphnia magna)
LC50 / 48 h	2262 mg/l (daphnia magna)
LC50 / 96 h (static)	5540 mg/l (fish)
DIMETHYL ETHER	
EC50 / 48 h	>4000 mg/l (daphnia magna)
N-BUTYL ACETATE	
EC50 / 48 h	44 mg/l (daphnia magna)
EC50 / 96 h	320 mg/l (algae)
LC50 / 24 h	205 mg/l (daphnia magna)
LC50 / 96 h	18 mg/l (Pimephales promelas)
2-METHOXY-1-METHYLETHYL ACETATE	
EC50	408 mg/l (daphnia magna)
BUTAN-1-OL	
EC50 / 48 h	1328 mg/l (daphnia magna)
EC50 / 72 h	8500 mg/l (algae)
LC50 / 96 h	1376 mg/l (Pimephales promelas)
TRIZINC BIS(ORTHOPHOSPHATE)	
EC50 / 48 h	0.04 mg/l (daphnia magna)
EC50 / 72 h	0.136 mg/l (algae)
LC50 / 96 h (dynamic)	0.14 mg/l (fish)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

Ecotoxical effects

Remark Toxic for fish

Additional ecological information

General notes Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

12.5. Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

12.6. Other adverse effects No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

Recommendation	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging	
Recommendation	Non contaminated packagings may be recycled.

14. Transport information

14.1. UN number

ADR, IMDG, IATA	UN1950

14.2. UN proper shipping name

ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR

Class	2 5F Gases.
Label	2.1

IMDG, IATA

Class	2.1
Label	2.1
14.4. Packing group ADR, IMDG, IATA	Void
14.5. Environmental hazards	
Marine Pollutant	No
14.6. Special precautions for user	Warning: Gases.
Danger code (Kemler)	-
EMS Number	F-D,S-U

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation"	UN1950, AEROSOLS, 2.1

15. Regulatory information

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

No further relevant information available.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Relevant phrases

H220 Extremely flammable gas.
H224 Extremely flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms

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: 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
Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas C: Gases under pressure: Compressed gas
Flam. Liq. 1: Flammable liquids, Hazard Category 1
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.