

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

**Product identifier** 

Trade name: P312 GLOSS RED PAINT 400ML RAL 3000

Article number: CODE P312

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

Application of the substance / the preparation Paint

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** 

**Emergency telephone** 

number:

Tel +44 (0) 1294 311 066

#### 2. Hazards identification

#### Classification of the substance or mixture

Classification according to Regulation (EC) No

1272/2008

GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

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



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable R12: Extremely flammable.

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! Pressurized container.

Has a narcotizing effect.

Classification system: The classification is according to the latest editions of the EU-lists, and extended

by company and literature data.



Label elements

Labelling according to EU

guidelines:

The product has been classified and marked in accordance with EU Directives /

Ordinance on Hazardous Materials.

Code letter and hazard designation of product: Xi Irritant F+ Extremely flammable

Risk phrases:

12 Extremely flammable.

36 Irritating to eyes.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

Safety phrases: 2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe aerosol.

26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

29/56 Do not empty into drains, dispose of this material and its container at

hazardous or special waste collection point.

46 If swallowed, seek medical advice immediately and show this container or

label.

51 Use only in well-ventilated areas.

Special labelling of certain

preparations:

Pressurized container: protect from sunlight and do not expose to temperatures

exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Classification in accordance Extremely flammable

with Directive 75/324/EEC:

Other hazards

Results of PBT and vPvB

assessment

PBT: Not applicable.

vPvB: Not applicable.

#### 3. Composition/information on ingredients

**Chemical characterization: Mixtures** 

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:** 

CAS: 67-64-1 EINECS: 200-662-2

20-25%

acetone

Xi R36

\* F R11 R66-67

Flam. Liq. 2, H225

Eye Irrit. 2, H319; STOT SE 3, H336

CAS: 115-10-6 EINECS: 204-065-8

20-25%

dimethyl ether **6** F+ R12

Flam. Gas 1, H220; Flam. Lig. 1, H224

Press. Gas, H280



CAS: 123-86-4 EINECS: 204-658-1 10-12.5% n-butyl acetate R10-66-67

Flam. Liq. 3, H226 STOT SE 3, H336

CAS: 74-98-6 EINECS: 200-827-9 propane F+ R12

5-10%

Flam. Gas 1, H220 Press. Gas, H280

CAS: 108-65-6 EINECS: 203-603-9 5-10% 2-methoxy-1-methylethyl acetate
Xi R36

R10

Flam. Liq. 3, H226

CAS: 106-97-8 EINECS: 203-448-7 5-10% butane

**b** F+ R12

Flam. Gas 1, H220 Press. Gas, H280

isobutaan (bevattend < 0,1 % butadieen (203-450-8))

F+ R12 Flam. Gas 1, H220 Press. Gas, H280

CAS: 71-36-3 EINECS: 200-751-6 2.5-5% butan-1-ol

Xn R22

Xi R37/38-41

R10-67

Flam. Liq. 3, H226 Eye Dam. 1, H318

Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335+H336

Solvent naphtha (petroleum), light arom. (< 0,1 % benzol CAS nr. 71-43-2)

CAS: 9004-70-0 2.5-5%

F R11

Flam. Sol. 1, H228

CAS: 67-63-0 EINECS: 200-661-7 1-2.5%

propan-2-ol
Xi R36
F R11

R67

Flam. Liq. 2, H225

Eye Irrit. 2, H319; STOT SE 3, H336

Nitrocellulose (nitrogen content <12.6%)

CAS: 64742-95-6 EINECS: 265-199-0

Xn R65

0.1-1%

Xi R37

N R51/53 R10-66-67

Carc. Cat. 2, Muta. Cat. 2 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Aquatic Chronic 2, H411 STOT SE 3, H335+H336

Additional information:

For the wording of the listed risk phrases refer to section 16.



#### 4. First aid measures

Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist,

consult a doctor.

**After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5. Firefighting measures

**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

Special hazards arising from the substance or mixture

**Special hazards arising from** No further relevant information available.

Advice for firefighters

**Protective equipment:** No special measures required.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Keep away from ignition sources.

**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.

Methods and material for containment and cleaning

up:

Ensure adequate ventilation.

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

Handling:

Precautions for safe

handling

No special measures required.

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.

Pressurized 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.

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 pressurized containers.

Information about storage in one common storage facility:

Not required.

Further information about

storage conditions:

Protect from heat and direct sunlight.

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

#### 8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Control parameters

Ingredients with limit values 67-64-1 acetone that require monitoring at

the workplace:

WEL () Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

115-10-6 dimethyl ether

WEL () Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

123-86-4 n-butyl acetate

WEL () Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL () Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

106-97-8 butane

WEL () Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

71-36-3 butan-1-ol

WEL () Short-term value: 154 mg/m³, 50 ppm

Sk

67-63-0 propan-2-ol

WEL () Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

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

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**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.

Protection of hands: Not required.

Material of gloves Not required.

Penetration time of glove

material

Not required.

**Eye protection:** Tightly sealed goggles.

#### 9. Physical and chemical properties

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:  $< 0^{\circ}C (< 32^{\circ}F)$ 

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: 1.2 Vol %

Upper: 26.2 Vol %

Vapour pressure at 20°C

(68°F):

4000 hPa (3000 mm Hg)

**Density at 20°C (68 °F):** 0.745 g/cm³ (6.217 lbs/gal)

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Relative density Not determined. Vapour density Not determined. **Evaporation rate** Not applicable.

water:

Solubility in / Miscibility with Not miscible or difficult to mix.

Segregation coefficient

(n-octanol/water):

Not determined.

Viscosity: Dynamic: Not determined.

Kinematic: Not determined.

Solvent content: Organic solvents: 88.5 %

**EU-VOC:** 679.8 g/l EU-VOC in %: 91.25 % Solids content: 11.5 %

Other information No further relevant information available

#### 10. Stability and reactivity

Reactivity

**Chemical stability** 

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

Possibility of hazardous

reactions

No dangerous reactions known.

Conditions to avoid No further relevant information available Incompatible materials: No further relevant information available

Hazardous decomposition

products:

No dangerous decomposition products known.

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#### 11. Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for 67-64-1 acetone

classification:

Oral LD50 5800 mg/kg (rat) Dermal LD50 20000 mg/kg (rabbit)

LC50 / 4 h 39 mg/m3 (rat)

115-10-6 dimethyl ether

LC50 / 4 h 308 mg/m3 (rat)

123-86-4 n-butyl acetate

10770 mg/kg (rat) Oral LD50 >17600 mg/kg (rabbit) Dermal LD50

LC50 / 4 h >21.0 mg/m3 (rat)

108-65-6 2-methoxy-1-methylethyl acetate

8532 mg/kg (rat) Oral LD50 Dermal LD50 >5000 mg/kg (rabbit)

LC50 / 4 h 35.7 mg/m3 (rat)

106-97-8 butane

LC50 / 4 h 658 mg/m3 (rat)

71-36-3 butan-1-ol

Oral LD50 4400 mg/kg (rat) Dermal LD50 4200 mg/kg (rabbit)

LC50 / 4 h 25 mg/m3 (rat)

67-63-0 propan-2-ol

5045 mg/kg (rat) Oral LD50 12800 mg/kg (rabbit) Dermal LD50

LC50 / 4 h 30 mg/m3 (rat)

64742-95-6 Solvent naphtha (petroleum), light arom.

(< 0,1 % benzol CAS nr. 71-43-2)

Oral LD50 3592 mg/kg (rat) (OECD401) Dermal LD50 >3160 mg/kg (rab) (OECD402)

LC50 / 4 h > 15 mg/m3 (rat)

**Primary irritant effect:** 

on the skin: No irritant effect on the eye: Irritating effect.

Sensitization: No sensitizing 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

**Toxicity** 

Aquatic toxicity: 67-64-1 acetone

EC50 / 48 h 39 mg/l (daphnia magna) LC50 / 48 h 2262 mg/l (daphnia magna)

LC50 / 96 h (static) 5540 mg/l (fish)

115-10-6 dimethyl ether

EC50 / 48 h >4000 mg/l (daphnia magna)

123-86-4 n-butyl acetate

EC50 / 96 h 320 mg/l (algae)

LC50 / 24 h 205 mg/l (daphnia magna) **108-65-6 2-methoxy-1-methylethyl acetate** EC50 408 mg/l (daphnia magna)

71-36-3 butan-1-ol

EC50 / 48 h 1983 mg/l (daphnia magna)

EC50 / 72 h 8500 mg/l (algae)

67-63-0 propan-2-ol

EC50 / 48 h 13299 mg/l (daphnia magna)

LC50 / 96 h (dynamic) 4200 mg/l (fish)

64742-95-6 Solvent naphtha (petroleum), light arom.

(< 0,1 % benzol CAS nr. 71-43-2)

EC50 / 24 h 150 mg/l (daphnia magna) EC50 / 48 h 7.4 mg/l (daphnia magna)

LC50 / 96 h 3.77 mg/l (fish)

Persistence and degradability

No further relevant information available

Behaviour in environmental systems:

Bioaccumulative potential No further relevant information available

Mobility in soil No further relevant information available

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

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Other adverse effects No further relevant information available

#### 13. Disposal considerations

Waste treatment methods

**Recommendation** Must not be disposed together with household garbage. Do not allow product to

reach sewage system

**European waste catalogue** 08 01 13 sludges from paint or varnish containing organic solvents or other

dangerous substances 15 01 04 metallic packaging

15 01 11 metallic packaging containing a dangerous solid porous matrix (for

example asbestos), including empty pressure containers



**Uncleaned packaging:** 

**Recommendation** Non contaminated packagings may be recycled

#### 14. Transport information

**UN-Number** 

ADR, IMDG, IATA UN1950

**UN** proper shipping name

ADR 1950 AEROSOLS

IMDG AEROSOLS

IATA AEROSOLS, flammable

Transport hazard class(es)

**ADR** 

Class 2 5F Gases.

Label 2.1

IMDG, IATA

 Class
 2.1

 Label
 2.1

Packing group

ADR, IMDG, IATA Void
Environmental hazards: No

**Marine Pollutant** 

Special precautions for user Warning: Gases.

Danger code (Kemler): -

EMS Number: F-D,S-U

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Not applicable.

Code

**Transport/Additional information:** 

**ADR** 

Limited quantities (LQ) 1L
Transport category 2
Tunnel restriction code D

UN "Model Regulation": UN1950, AEROSOLS, 2.1



#### 15. Regulatory information

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

#### 16. Other information

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.

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.

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.

R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R22 Harmful if swallowed. R36 Irritating to eyes.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**Department issuing MSDS:** Technical Department

Contact: technical@tygrisindustrial.com

Abbreviations and

acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods

by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International

Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent