

### Company Details

Name: Freeworld Automotive Coatings (PTY) LTD  
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### 2 Hazards identification

#### Hazard description:



Xi Irritant  
F+ Extremely flammable

#### 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.

R 12 Extremely flammable.

R 18 In use, may form flammable/explosive vapour-air mixture.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

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. Keep away from sources of ignition - No smoking.

Keep out of the reach of children

#### Classification system:

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

#### GHS label elements



**Danger**

2.3/1 - Extremely flammable aerosol.



**Warning**

3.3/2A - Causes serious eye irritation.

3.8/3 - May cause drowsiness or dizziness.

#### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

### Response:

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If eye irritation persists: Get medical advice/attention.

### Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

### Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3 Composition/information on ingredients

### Chemical characterization

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

Dangerous components:		
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether F+; R 12 Danger: 2.2/1	50-100%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi, F; R 11-36-66-67 Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	25-50%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Xi; R 10-36 Warning: 2.6/3; 3.3/2A	≤ 2.5%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First-aid measures

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

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

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

**After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Cool container with water

### Special hazards caused by the substance, its products of combustion or resulting gases:

Can form explosive gas-air mixtures.

**Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:** Ensure adequate ventilation.

### 7 Handling and storage

#### Handling:

##### Information for safe handling:

Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Take note of emission threshold.  
Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

**Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.**

#### 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.

### 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:	
<b>115-10-6 dimethyl ether</b>	
WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 ppm
<b>67-64-1 acetone</b>	
WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk

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

#### 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:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.

##### Protection of hands:

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** Nitrile rubber, NBR

##### Penetration time of glove material

Gloves must be changed after every contamination.

The exact break trough 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

General Information	
<b>Form:</b>	Aerosol
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.
<b>Flash point:</b>	Without propellant gas.
<b>Ignition temperature:</b>	235°C
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	In use, may form flammable/explosive vapour-air mixture.
<b>Explosion limits:</b>	
<b>Lower:</b>	2.6 Vol %
<b>Upper:</b>	18.6 Vol %
<b>Vapour pressure at 20°C:</b>	3400 hPa
<b>Density at 20°C:</b>	0.71939 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with water:</b>	
	Fully miscible.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	100.0 % With propellant gas. Content given by weight.

### 10 Stability and reactivity

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

**Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.

**Dangerous decomposition products:** Possible in traces.

### 11 Toxicological information

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**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

**General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### 13 Disposal considerations

**Product:**

**Recommendation**

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

Empty aerosols can be disposed with the ordinary waste.

European waste catalogue	
15 01 10	packaging containing residues of or contaminated by dangerous substances

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

#### Land transport ADR/RID (cross-border)



<b>ADR/RID class:</b>	2 5F Gases.
<b>Danger code (Kemler):</b>	-
<b>UN-Number:</b>	1950
<b>Packaging group:</b>	-
<b>Hazard label</b>	2.1
<b>Description of goods:</b>	1950 AEROSOLS
<b>Limited quantities (LQ)</b>	LQ2
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	B1D

#### Maritime transport IMDG:



<b>IMDG Class:</b>	2.1
<b>UN Number:</b>	1950
<b>Label</b>	2.1
<b>Packaging group:</b>	-
<b>EMS Number:</b>	F-D,S-U
<b>Marine pollutant:</b>	No
<b>Proper shipping name:</b>	AEROSOLS

#### Air transport ICAO-TI and IATA-DGR:



<b>ICAO/IATA Class:</b>	2.1
<b>UN/ID Number:</b>	1950
<b>Label</b>	2.1
<b>Packaging group:</b>	-
<b>Proper shipping name:</b>	AEROSOLS, flammable
<b>UN "Model Regulation":</b>	UN1950, AEROSOLS, 2.1

### 15 Regulatory information

#### 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.

18 In use, may form flammable/explosive vapour-air mixture.

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.

7 Keep container tightly closed.

23 Do not breathe aerosol.

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

51 Use only in well-ventilated areas.

56 Dispose of this material and its container to hazardous or special waste collection point.

#### 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. Keep away from sources of ignition - No smoking.

Keep out of the reach of children

#### National regulations:

#### Technical instructions (air):

Class	Share in %
NK	50-100

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 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 R-phrases

10 Flammable.

11 Highly flammable.

12 Extremely flammable.

36 Irritating to eyes.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

**Department issuing MSDS:** Product safety department

**Contact:** Hr. Hamberger

#### 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 internationale concernent 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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals