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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 11.10.2016

Version number 42

Revision: 11.10.2016

SECTION 1: I	ntification of the substance/mixture and of the	e company/undertaking		
· 1.1 Product identi	· 1.1 Product identifier			
· Trade name: ZWA	· Trade name: ZWALUW RUST-PRIMER RED 400ML			
• 1.2 Relevant ident No further relevant	 Article number: 12009723 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Anticorrosion additive 			
 Manufacturer/Suj DEN BRAVEN Denariusstraat 11 4903 RC Oosterhoo The Netherlands Tel: + 31 (0)162-42 Fax: +31 (0)162-42 E-mail: info@denb Internet: www.denl Further informati Product safety depa info@denbraven.cc 1.4 Emergency tel 	 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: DEN BRAVEN Denariusstraat 11 4903 RC Oosterhout The Netherlands Tel: + 31 (0)162-491000 Fax: +31 (0)162-491000 Fax: +31 (0)162-421217 E-mail: info@denbraven.com Internet: www.denbraven.com Further information obtainable from: Product safety department. info@denbraven.com 1.4 Emergency telephone number: info@denbraven.com 			
• 2.1 Classification • Classification acco	ards identification he substance or mixture ing to Regulation (EC) No 1272/2008			
GHS02 flar				
Aerosol 1	22-H229 Extremely flammable aerosol. Pressurised cont	ainer: May burst if heated.		
GHS07				
Eye Irrit. 2	19 Causes serious eye irritation.			
STOT SE 3	36 May cause drowsiness or dizziness.			
Aquatic Chronic 3	12 Harmful to aquatic life with long lasting effects	•		
	To Regulation (EC) No 1272/2008 ed and labelled according to the CLP regulation.			
GHS02 GHS07				
· Signal word Dang	· Signal word Danger			
acetone Hydrocarbons, C9, • Hazard statement H222-H229 Extrem	components of labelling: matics flammable aerosol. Pressurised container: May burst if h rious eye irritation.	eated.		
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H336	May cause drowsiness or dizziness.				
H412	Harmful to aquatic life with long lasting effects.				
· Precaution	ary statements				
P101	If medical advice is needed, have product container or label at hand.				
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.				
P261	Avoid breathing vapours or spray.				
P271	Use only outdoors or in a well-ventilated area.				
P280	Wear protective gloves / eye protection / face protection.				
P305+P351	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if				
	present and easy to do. Continue rinsing.				
P312	Call a POISON CENTER/doctor if you feel unwell.				
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.				
P501	Dispose of contents/container to hazardous or special waste collection point.				
· Additional	· Additional information:				
EUH066 Re	EUH066 Repeated exposure may cause skin dryness or cracking.				
Buildup of e	Buildup of explosive mixtures possible without sufficient ventilation.				
· 2.3 Other h	azards				
· Results of I	· Results of PBT and vPvB assessment				

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

 Dangerous components: 		
CAS: 67-64-1 EINECS: 200-662-2	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-<50%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220; Press. Gas C, H280	10-<20%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1, H220; Press. Gas C, H280	5-<10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Hydrocarbons, C9, aromatics Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene Flam. Liq. 3, H226; () Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane Flam. Gas 1, H220; Press. Gas C, H280	2.5-<5%
CAS: 7779-90-0 EINECS: 231-944-3	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-<1.0%
• Additional information: For the	wording of the listed hazard phrases refer to section 16.	

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

· After eye contact:

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

- After swallowing: Do not induce vomiting; call for medical help immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed
- Breathing difficulty
- Headache
- Dizziness
- Dizziness
- Nausea

\cdot 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs. Later observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- Foam
- Fire-extinguishing powder
- Carbon dioxide
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture
- Can form explosive gas-air mixtures.
- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information
- Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
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:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
6.4 Reference to other sections See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes.

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

SECTION 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:

CAS: 67-64-1 acetone

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

CAS: 1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

CAS: 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)

· Ingredients with biological limit values:

CAS: 1330-20-7 xylene

BMGV 650 mmol/mol creatinine

Medium: urine Sampling time: post shift

Parameter: methyl hippuric acid

• 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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Recommended filter device for short term use: Filter AX

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· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • Material of gloves

- Butyl rubber, BR
- Recommended thickness of the material: ≥ 0.7 mm
- · Penetration time of glove material
- ≥60 min

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

· Body protection: Protective work clothing

SECTION 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:	Aromatic	
Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Not applicable, as aerosol.		
· Flash point:	Not applicable, as aerosol.	
· Ignition temperature:	>200 °C	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
· Density at 20 °C:	0.82441 g/cm ³	
Solubility in / Miscibility with water: Not miscible or difficult to mix.		
 Viscosity: Dynamic: Kinematic: Organic solvents: 	Not determined. Not determined. 77.2 %	
VOC (EC) • 9.2 Other information	636.3 g/l No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 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.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

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Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
	LD50	25893 mg/kg (rabbit)
Inhalative	LC50/4 h	222 mg/l (rat)
CAS: 67-0	64-1 aceto	ne
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
CAS: 75-2	28-5 isobu	tane
Inhalative	LC50/4 h	>50 mg/l (rat)
CAS: 74-9	98-6 propa	ine
Inhalative	LC50/4 h	20 mg/l (rat)
Hydrocar	bons, C9,	aromatics
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
CAS: 133	0-20-7 xyl	ene
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.7 mg/l (rat)
	-97-8 buta	
		658 mg/l (rat)
CAS: 777	9-90-0 triz	tinc bis(orthophosphate)
Oral	LD50	>5000 mg/kg (rat)
Primary i		
		ation Based on available data, the classification criteria are not met.
	rious eye ir	
		sensitisation Based on available data, the classification criteria are not met.
		nogenity, mutagenicity and toxicity for reproduction)
		city Based on available data, the classification criteria are not met.
		sed on available data, the classification criteria are not met.
STOT-sin		ty Based on available data, the classification criteria are not met.
		ss or dizziness.
STOT-rep	peated exp	osure Based on available data, the classification criteria are not met.
Aspiration	n hazard H	Based on available data, the classification criteria are not met.

· 12.1 Toxicity

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 Aquatic toxicity: CAS: 67-64-1 acetone

EC50/48 h 8800 mg/l (daphnia)

Hydrocarbons, C9, aromatics

LC50 1-10 mg/l (daphnia)

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CAS: 1330-20-7 xylene

EC50/48 h 165 mg/l (daphnia)

- 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.
- · Additional ecological information:

· General notes:

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:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 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.

· European waste catalogue

16 05 04* gases in pressure containers (including halons) containing hazardous substances

15 01 04 metallic packaging

· Uncleaned packaging:

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

14.1 UN-Number ADR,RID,ADN, IMDG, IATA	UN1950	
• 14.2 UN proper shipping name		
· ADR/RID/ADN	UN1950 AEROSOLS	
IMDG	AEROSOLS	
IATA	AEROSOLS, flammable	
14.3 Transport hazard class(es)		
ADR/RID/ADN		
Class	2 5F Gases.	
Label	2.1	
IMDG, IATA		
e		
Class	2.1	
Label	2.1	
14.4 Packing group		

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14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of
	litre: Category A. For AEROSOLS with a capacity abov
	1 litre: Category B. For WASTE AEROSOLS: Categor
	C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of
	litre: Segregation as for class 9. Stow "separated from
	class 1 except for division 1.4. For AEROSOLS with
	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 An	nex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
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

SECTION 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

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements $150\,t$

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 28, 29
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

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.

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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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
· Department issuing SDS: Product safety department.
• Contact: Kees van Bemmel / Pascal Timmermans
· 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: 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)
VOC: Volatile Organic Compounds (USA, EU)
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
Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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
\cdot * Data compared to the previous version altered.