

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 13.02.2012

revision 13.02.2012 (GB) Version 1.0

Precious Ruby 270ml

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of product Precious Ruby 270ml
Art-Nr W501

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

Details of the supplier of the safety data sheet

Manufacturer/distributor

P+L Systems Ltd.
Ten St James Business Park, Grimbald Crag Court, UK-
HG5 8QB Knaresborough
Phone 0044 (0) 800 988 5359, Fax 0044 (0) 1 423 863 497
E-Mail info@pandlsystems.com
Internet www.pandlsystems.com

Advice

Phone 0044 (0) 1 412 861 226

Emergency telephone number

SECTION 2: Hazards identification

Classification of the substance or mixture

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

F+; R12

R-phrases

12 Extremely flammable.

Label elements

Labelling according to 67/548/EEC or 1999/45/EC

F+ Extremely flammable



R-phrases

12 Extremely flammable.

S-phrases

2 Keep out of the reach of children.
23 Do not breathe spray.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

Special rules for supplemental label elements for certain mixtures

Contains 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-on. May produce an allergic reaction.
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.

Other hazards

SECTION 3: Composition/ information on ingredients

Mixtures

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
64-17-5	200-578-6	ethanol	ca. 15	F R11
67-63-0	200-661-7	propan-2-ol	ca. 10	F R11; Xi R36; R67
74-98-6	200-827-9	propane	ca. 12	F+ R12
75-28-5	200-857-2	isobutane	ca. 23	F+ R12
106-97-8	203-448-7	butane	ca. 33	F+ R12
1222-05-5	214-946-9	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	< 0,16	N R50-53
88-41-5	201-828-7	2-tert-Butylcyclohexyl acetate	< 0,3	N R51/53
1205-17-0	214-881-6	a-Methyl-1,3-benzodioxol-5-propionaldehyd	< 0,2	Xi R36-37-38; N R51/53
127-51-5	204-846-3	3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-on	< 0,15	Xi R43; N R51/53

SECTION 4: First aid measures

Description of first aid measures

General information

In case of allergic reactions, specially at respiratory tract, seek medical treatment immediately.

In case of stronger and long effects, specially on skin and respiratory tract, medical treatment is necessary.

In case of inhalation

In the event of symptoms refer for medical treatment.

In case of skin contact

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

Allergic symptoms

Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

Treat symptoms.

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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

ABC powder

Carbon dioxide

Water spray jet

Extinguishing media which must not be used for safety reasons

Full water jet

Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Shown danger refers to the contents of the cans standing under pressure. Above 50 °C danger of burst under emission of atmosphere capable of explosion . Bring out containers from fire area.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep people away and stay on the upwind side.

Keep away sources of ignition.

Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.

Environmental precautions

Collect contaminated water / firefighting water separately.

Do not discharge into the drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).

Additional Information

Vapour can be explosive in the mixture with air.

Reference to other sections

SECTION 7: Handling and storage

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Precautions for safe handling

Advice on safe handling

No special measures necessary if used correctly.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Emergency cooling must be provided for the eventuality of a fire in the vicinity.

Vapours can form an explosive mixture with air.

The vapours of product are heavier than air.

Formation of explosive gas mixtures in air.

Pay attention to general rules of internal fire prevention.

Avoid effect of heat.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Ventilate store-rooms thoroughly.

Provide floor with bunding.

Further information on storage conditions

Keep locked up, out of reach of children

Protect aerosols against fall over.

Storage temperature between 0 °C to 30 °C (=32 °F to 86 °F), maximum 50 °C (=122 °F).

Protect from heat/overheating.

Information on storage stability

maximum storage time: 3 years.

Storage group 2B

Fire class C

Specific end use(s)

SECTION 8: Exposure controls/personal protection

Control parameters

biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Examination material	Test date
67-63-0	propan-2-ol	Aceton	50 mg/l	B	b
67-63-0	propan-2-ol	Aceton	50 mg/l	U	b

Exposure controls

Respiratory protection

Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, filter A

Hand protection

Gloves (solvent-resistant)

General protective measures

Avoid contact with eyes and skin

Do not inhale aerosols

Hygiene measures

At work do not eat, drink, smoke or take drugs.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form

aerosol can (data refer to the contents).

Colour

colourless, clear

Odour

aromatic alcoholic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	not applicable				
Acid number	not applicable				
Flash point	-60 °C			DIN 51755	information concerns to propellant
Ignition temperature	365 °C			DIN 51794	information concerns to propellant
Lower explosion limit	1,5 Vol-%			DIN 51649	information concerns to propellant
Upper explosion limit	8,5 Vol-%			DIN 51649	information concerns to propellant
Vapour pressure	2,7 bar	20 °C		inside pressure of the aerosol can	
Density	0,63 g/cm ³	20 °C		liquid	information concerns to liquid phase
Solubility in water					multimiscible

Other information

SECTION 10: Stability and reactivity

Reactivity

Chemical stability

Possibility of hazardous reactions

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Conditions to avoid

danger of bursting above 50 °C

Incompatible materials

Hazardous decomposition products

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	5000 mg/kg	rat	OECD 401	Information concerns to main component.
LD50 acute dermal	10000 mg/kg	rabbit		
LC50 acute inhalation	> 1800 mg/l (4 h)	rat	OECD	
Irritability skin	low irritant effect - not necessary to label			
Irritability eye	low irritant - no labeling duty			

Experiences made from practice

Allergic reactions possible (analogy-reasons).

Has a degreasing effect on the skin.

Frequent persistent contact with the skin may cause skin irritation.

Additional information

No toxical dates available.

Toxical dates refer to solvent.

Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

SECTION 12: Ecological information

Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 > 2000 mg/l (96 h)	Leuciscus idus	OECD 203, lethality	
Daphnia	EC50 > 5000 mg/l (48 h)	Daphnia magna	OECD 202	
Algae	EC50 > 100 mg/l	Scenedesmus subspicatus	OECD 201	

Persistence and degradability

Biological degradability

Biodegradable

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Bioaccumulative potential

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

General regulation

Do not allow uncontrolled leakage of product into the environment.

The information to ecology refers to solvent.

SECTION 13: Disposal considerations

Waste treatment methods

Waste code No.

20 01 40

Name of waste

metals

Recommendations for the product

May be taken to household waste disposal or incineration plant, but care for official regulations.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

SECTION 14: Transport information

Land and inland navigation transport ADR/RID

UN 1950 AEROSOLS (butane), 2.1, (D), Classification code: 5F

Marine transport IMDG

UN 1950 AEROSOLS (butane), 2

Air transport ICAO/IATA-DGR

UN 1950 Aerosols, flammable (butane), 2.1

Transport/further information

Regulations concerning free quantities are to be observed.

Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Other regulations (EU)

Aerosol directive (75/324/EEC).

National regulations

Water hazard class

3

Mixture-WGK

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Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 11 Highly flammable.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 43 May cause sensitisation by skin contact.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.