

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Revision 08.03.2012 (GB) Version 2.0

Pluvonin

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

Product identifier

Name of product Pluvonin

Manufacturer F.W. KLEVER GmbH

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E-Mail info@ballistol.de Internet www.ballistol.de

Advice Büro / Labor

Phone 08744/9699-0

Emergency advice 08744/9699-0

This number is only available at office times.

Recommended intended purpose(s)

waterproofing agent

2. Hazards identification

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

F+; R12 R52/53 Xn; R65 R67

R-phrases

12 Extremely flammable.
36/38 Irritating to eyes and skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.

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

F+ Extremely flammable

N Dangerous for the environment

Xn Harmful







R-phrases

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Information pertaining to special dangers for human and environment

Harmful by inhalation and if swallowed.

3. Composition/information on ingredients

Hazardous ingredients

CAS No	EC No	Name	[%-Vol]	Classification according to 67/548/EEC
74-98-6	200-827-9	propane		F+ R12
106-97-8	203-448-7	butane		F+ R12
107-83-5	203-523-4	hexane (containing < 5 % n-hexane (203-777-6))	> 50	F R11; Xn R65; Xi R38; R67; N R51-53

Additional advice

Aerosol: Treibmittel Propan/Butan

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

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.

In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

Treatment (Advice to doctor)

Treat symptoms.

5. Firefighting measures

Suitable extinguishing media

Foam

ABC powder

Carbon dioxide

sand

Extinguishing media which must not be used for safety reasons

Strong water jet

Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Carbon dioxide (CO2)

Vapours may form explosive mixtures with air

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).



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Additional information

Heating causes rise in pressure with risk of bursting

6. Accidental release measures

Personal precautions

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Do not breath vapour or spray.

Environmental precautions

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

Methods for cleaning up

Clean contaminated objects and floor thoroughly under consideration of environment regulations.

7. Handling and storage

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Use only in well-ventilated areas.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store with combustible materials.

Further information on storage conditions

Protect from extreme heat and cold.

Storage temperature may not exceed 50 °C (=122 °F).

Storage group 2B

!8. Exposure controls/personal protection

! Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus. Use filter apparatus type AX, identification colour brown according to EN 371

Hand protection

Gloves (solvent-resistant)

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

Eye protection

tightly fitting goggles

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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Wash hands before breaks and after work.

Limitation and surveillance of the environment

19. Physical and chemical properties

Form	Colour	Odour
aerosol	colourless, clear	like petrol (gasoline)

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pourpoint	< -50 °C			DIN/ISO 3016	
Flash point	ab -104 ℃				(Propan)
Lower explosion limit	ca. 1,5 Vol-%				(Propan)
Upper explosion limit	ca. 10,9 Vol-%				(Propan)
Vapour pressure	ca. 45 hPa	20 ℃			
Solubility in water					immiscible

10. Stability and reactivity

Conditions to avoid

Formation of explosive gas/air mixtures.

Extremely flammable. Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C.

Materials to avoid

Reactions with strong oxidising agents.

Hazardous decomposition products

No hazardous decomposition products known.

Additional information

Product is stable under normal storage conditions

!11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark	
Irritability skin	low irritant effect - not necessary to label				
Skin sensitization	non-sensitizing				

! Toxicity test (Additional information)

When propered use the product according to our experience and the information available to us caused no harmful effects.



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! Experiences made from practice

Risk of strong health injuries in case of long-term exposition.

Has a degreasing effect on the skin.

Frequent persistent contact with the skin may cause skin irritation.

! Additional information

The product has not been tested. The information is derived from products of similar composition.

!12. Ecological information

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				Moderately/partially biodegradable
Biological eliminability				Moderately/partially eliminable from water

! 13. Disposal considerations

! Waste code No.

Name of waste

14 06 03*

other solvents and solvent mixtures

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product

Product rests: send for disposal, e.g. special waste incineration.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

!14. Transport information

Land and inland navigation transport ADR/RID

UN-Nummer: 1950 RID: Gefahrnummer 23

Including 1.000 ml LQ2 (max. 30 kg/package)

ADR/RID: Klasse 2, Code: 5F

Marine transport IMDG

ADR: UN-Number: 1950, Aerosols (maximum 1 l) Including 1.000 ml LQ2 (max. 30 kg/package)

ADR/RID: Klasse 2, Code: 5F

EmS: F-D, S-U

Air transport ICAO/IATA-DGR

UN/ID-Number: 1950, Aerosols, flammable

ICAO/IATA: Class 2.1 Passanger/Cargo: 203



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15. Regulatory information

Other regulations (EU)

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Aerosol directive (75/324/EEC).

National regulations

Restriction of occupation

Observe employment restrictions for young people.

Water hazard class 1 value from literature

Decree for case of interference/remarks

Nr.: 7 b

Chemical Safety Assessment

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

16. Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

R12 = Extremely flammable

R36 = Reizt die Augen

R66 = Wiederholter Kontakt kann zu spröder oder rissiger Haut führen

R67 = Dämpfe können Schläfrigkeit und Benommenheit verursachen

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 38 Irritating to skin.

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

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.