

Printing date 01.10.2015 Revision: 08.09.2015

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

· 1.1 Product identifier

- · Trade name: ZWALUW MAXI-GUNFOAM
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

Filling of gaps in interior applications and cavities. For filling and isolation around window frames and doors.

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Den Braven Romania Comex S.R.L.

Buftea, Rasaritului Street (DN7), 51, Ilfov, Romania

Phone: +40372833300; Fax: +40372833301; www.denbraven.ro

· Further information obtainable from:

Operations Departament

Mihai.Burete@denbraven.ro

· 1.4 Emergency telephone number:

During normal opening times: +40372833300

Monday to Friday 8:30 to 17:00 EET

National Poisons Information Service (NPIS) Email: director.birmingham.unit@npis.org

Website: http://www.npis.org

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

H229 Pressurised container: May burst if heated.

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

Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

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Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

F+; Extremely flammable

R12: 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.

Warning! Pressurised container.

Classification system:

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

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomers and homologues

· Hazard statements

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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· Additional information:

Contains isocyanates. 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.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		·
CAS: 9016-87-9 Reg.nr.: 01-2119457024-46-xxxx	diphenylmethanediisocyanate,isomers and homologues X Xn R20; Xn R42/43; Xi R36/37/38 ♣ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	25-50%
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 13674-84-5	tris(2-chlorisopropyl)-phosphate	2.5-20%
EINECS: 237-158-7	Xn R22	
Reg.nr.: 01-2119486772-26-xxxx	Acute Tox. 4, H302	
CAS: 75-28-5	isobutane	2-10%
EINECS: 200-857-2	♦ F+ R12	
Reg.nr.: 601-004-00-0	Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 115-10-6	dimethyl ether	2-10%
EINECS: 204-065-8		
Reg.nr.: 01-2119472128-37-xxxx	Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 74-98-6	propane	2-10%
EINECS: 200-827-9		
Reg.nr.: 601-003-00-5	Flam. Gas 1, H220; Press. Gas C, H280	

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Personal protection for the First Aider.

Position and transport stably in side position.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Remove clothes and remove or scrape fresh foam carefully.

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

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· After eye contact:

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

- · After swallowing: Rinse out mouth and then drink plenty of water.
- · 4.2 Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty

Coughing

Disziness

Allergic reactions

· 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatical treatment (decontamination, vital bodily function)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray.

CO2, sand, extinguishing powder. Do not use water.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Hydrogen chloride (HCl)

Hydrogen cyanide (HCN)

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

• 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:

Recommended cleaner: acetone

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· 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.

· 7.2 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 pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) OCF

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

115-10-6 dimethyl ether

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

- · 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.

Avoid contact with the eyes and skin.

· Respiratory protection:

Not necessary if room is well-ventilated.

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.

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

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Density at 20 °C:



Tightly sealed goggles

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:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	235 °C	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
Danger of explosion:Explosion limits:	Not determined.	
Lower:	3 Vol %	
Upper:	16 Vol %	
· Vapour pressure at 20 °C:	5.5 bar	

1.023 g/cm³

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

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents: 18.64 % VOC (EC) 191.6 g/L 18.64 %

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No dangerous reactions are known
- 10.2 Chemical stability No decomposition if used according to specifications.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Acids, bases and oxidants. Amines and alcoholes. Polyols and water
- · 10.6 Hazardous decomposition products:

Hydrogen cyanide (prussic acid)

Hydrogen chloride (HCl)

Carbon monoxide

Carbon dioxide

Nitrogen oxides

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

· LD/LC50 values relevant for classification:

13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral LD50 3600 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· 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:

Harmful

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Irritant

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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 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.

- · 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. Prevent entry into sewers.

· 13.2 Euro	· 13.2 European waste catalogue		
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS		
	AND PRINTING INKS		
08 05 00	wastes not otherwise specified in 08		
08 05 01*	waste isocyanates		
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST		
16 05 00	gases in pressure containers and discarded chemicals		
16 05 04*	gases in pressure containers (including halons) containing dangerous substances		
17 00 00	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM		
	CONTAMINATED SITES)		
17 06 00	insulation materials and asbestos-containing construction materials		
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03		

- · Uncleaned packaging:
- · **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA UN1950
- · 14.2 UN proper shipping name
- · **ADR** 1950 AEROSOLS

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· IMDG	AEROSOLS	
· IATA	AEROSOLS, flammable	
· 14.3 Transport hazard class(es)		
· ADR		
^		
· Class	2 5F Gases.	
· Label	2.1	
· IMDG, IATA		
^		
· Class	2.1	
· Label	2.1	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:		
· Marine pollutant:	No	
· 14.6 Special precautions for user	Warning: Gases.	
· Danger code (Kemler):	-	
· EMS Number:	F-D,S-U	
· 14.7 Transport in bulk according to Ann	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
· ADR		
· Limited quantities (LQ)	1 L	
· Transport category	2	
· Tunnel restriction code	D	
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 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.

H280 Contains gas under pressure; may explode if heated.

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H3	302	Harmful if swallowed.		
H3	315	Causes skin irritation.		
Н3	317	May cause an allergic skin reaction.		
Н3	319	Causes serious eye irritation.		
Н3	332	Harmful if inhaled.		
Н3	34	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Н3	335	May cause respiratory irritation.		
Н3	351	Suspected of causing cancer.		
Н3	373	May cause damage to organs through prolonged or repeated exposure.		
R1	2	Extremely flammable.		
R2		Harmful by inhalation.		
R2	22	Harmful if swallowed.		
R3	6/37/38	Irritating to eyes, respiratory system and skin.		
		May cause sensitisation by inhalation and skin contact.		
	· Abbreviations and acronyms:			
		deuropéen 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			
		ational Air Transport Association		
		y Harmonised System of Classification and Labelling of Chemicals		
		opean Inventory of Existing Commercial Chemical Substances		
	ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)			
		e Organic Compounds (USA, EU)		
LC:	LC50: Lethal concentration, 50 percent			
	LD50: Lethal dose, 50 percent			
	Flam. Gas 1: Flammable gases, Hazard Category 1			
	: Flammable aerosols, Hazard Category 3 Press. Gas C: Gases under pressure: Compressed gas			
	Acute Tox. 4: Acute toxicity, Hazard Category 4			
	Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2			
	Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2			
	Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1			
		inogenicity, Hazard Category 2		
	STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3			
STO	OT RE 2: \$	Specific target organ toxicity - Repeated exposure, Hazard Category 2		

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