Date of issue: 07.10.2007
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Version: 1.7

Safety Data Sheet
According with Commission Regulation (EU) 2015/830 of 28 May 2015.

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

1.1. Product identifier
Trade name: RAWL PLUG REMOVAL OF UNCURED FOAM UNIVERSAL
R-RPC-0500

1.2. Relevant identified uses of substance or mixture and uses advised against
Application identified: Removes uncured foam and polyurethane adhesive. Indispensable while cleaning cans and guns dispensing one-component fixing and sealing foam. Ideal agent for degreasing steel surfaces before using polyurethanes and silicones.
Uses advised against: Other than specified above.

1.3. Details of the supplier of the safety data sheet

Name and address of the supplier:

Rawlplug S.A. ul. Kwidzyńska 6, 51-416 Wrocław
Telephone number: + 48 (0) 71 32 60 100
Fax number: + 48 (0) 71 37 26 111
www.rawlplug.com

Email address of competent person responsible for the SDS

+ 48 32 324 00 17
mail: chb_karty@rytm-l.pl

1.4. Emergency telephone number :

+ 48 32 324 00 17 Mon-Fri 8-16
112

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Commision Regulation (EC) No. 1272/2008:

Class	category	Hazard statement
Flam. Aerosol	1	H222: Extremely flammable aerosol
Flam. Aerosol	1	H229: Pressurized container: may burst if heated
Eye Irrit.	2	H319: Causes serious eye irritation
STOT SE	3	H336: May cause drowsiness or dizziness

2.2. Label elements
GHS pictograms:

Signal word:
DANGER

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P211 Do not spray on an open flame or other ignition source.
P260 Do not breathe vapours/spray.
P280 Wear protective gloves/eye protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Warning information:
Read label before use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well ventilated place. Keep away from heat, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Dispose of contents/container to/ accordance with national regulation
Contains: acetone, aliphatic hydrocarbons ≥15 but <30%

2.3. Other hazards

No Information on the criteria for PBT and vPvB in accordance with Annex XIII of REACH.

Section 3: : Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical Name	Concentration [%]	Nr CAS	Nr WE	Classification (WE) NR 1272/2008
Acetone 01-2119471330-49-xxxx	60-75	67-64-1	200-662-2	Eye Irrit.2 H319 STOT SE 3 H336 Flam. Liq.2 H225
Propane 01-2119486944-21-xxxx Butane 01-2119474691-32-xxxx Isobutane 01-2119485395-27-xxxx	15-30	74-98-6 106-97-8 75-28-5	200-827-9 203-448-7 200-857-2	Flam. Gas 1 H220 Press. Gas

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

Section 4: First aid measures

4.1. Description of first aid measures

General advive:	If you feel unwell, seek medical advice (show the label where possi-ble). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
In Inhaled:	If breathed in, move person into fresh air. In the case of

	inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is diffi-cult, give oxygen.
In case of skin contact	Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	If swallowed, seek medical advice immediately and show this con-tainer or label. If swallowed, DO NOT induces vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2. Most important symptoms and effects, both acute and delayed

Not applicable

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

Not applicable

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use carbon dioxide, dry chemical, alcohol-extinguishing foam, water spray depending on the environment.

Unsuitable extinguishing media: Tight stream of water.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefight-ing: Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire condi-tions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3. Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding envi-ronment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If the tempera-ture rises there is danger of the vessels bursting due to the high vapor pressure.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Don’t inhale the vapours. Use protection clothing, face and hands protection. Don’t smoke and avoid sparks. Ensure good ventilation for closed areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermicu-lite) and place in container for disposal according to local / national regulations. Clean contaminated surface tho-roughly.

6.4 Reference to other sections

Other information on waste disposal – chapter 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Limit the stocks at work place. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational expo-sure limits. Take precautionary measures against static discharges.

Advice on protection against fire and explosion

Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Please observe the storage instructions for aerosols! Keep away from children. Storage in temperature between from + 5 ° C to + 35 ° C.

Advice on common storage

Incompatible with acids and bases. Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.

7.3. Specific enduse(s)

No information about the applications other than those described in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Ingredient name	NDS	NDSCh	NDSP
Acetone	600 mg/m^3	1800 mg/m^3	-
Propane	1800 mg/m3	-	-
Butane	1900 mg/m3	3000 mg/m3	-
Isobutane	4,4 mg/m3	-	-

DN(M)ELs

Ingredient name	Route of exposure	Value	Group	Effect
Acetone	inhalation	2420 mg/m3	worker	Acute toxicity
		1210 mg/m3		chronic toxicity
	skin	186 mg/kg/24h		chronic toxicity
	oral use	62 mg/kg/24h	consumer	chronic toxicity
	inhalation	200 mg/m3		chronic toxicity
	skin	62 mg/kg/24h		chronic toxicity

PNECS

	Environmental protection target	Value
Acetone	Fresh water	10,6 mg/dm3
	seawater	1,06 mg/dm3
	Precipitate (fresh water)	30,4 mg/kg
	The precipitate (sea water)	30,4 mg/kg

8.2. Exposure controls

Respiratory system: Necessary preservation, when vapor are formed or poorly vented areas. In case of long-term application use mask with compressed air.

Eyes: Protective goggles are recommended.

Skin: Protective gear is recommended.

Alimentary system: Wash hands after work and during brakes. Don't eat during work with the preparation. Adhere to the basic hygiene rules.

Section 9: Physical and chemical properities

9.1. Information on basic physical and chemical properties

Form: colorless fluid under propellant gas pressure
Scent: characteristic
pH: does not apply
Boiling point: -42°C do 0°C (for gas propane/butane/isobutane)
56°C (for acetone)
Ignition temperature: -80°C (for gas propane/butane/isobutane)
-19°C (for acetone)
Flammability (solid/gas) extremely flammable aerosol
Explosiveness borders: **lower:** 1,5% volume (for gas propane /butane /isobutane)
upper: 10,9% volume (for gas propane /butane /isobutane)
lower: 2,1% volume (for acetone)
upper: 13,0% volume (for acetone)
Oxidizing properties: lack of data, avoid mix content of the can with another chemicals
Vapour pressure in 20°C: 1200-7500hPa (for propane/butane/isobutane)
233hPa (for acetone)
Relative density : 0,82-0,83 g/cm^3 (for water 1,0 g/cm^3)
Solubility in water: soluble
Solubility in organic solvents: soluble
Division factor n-oktanol/water: not concern
Viscosity: not concern
Vapour density: not concern
Evaporation rate : not concern

9.2. Other information

Not applicable

Section 10: Stability and reactivity

10.1 Reactivity

Not applicable

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability: No decomposition if stored and applied as directed. Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

10.4 Conditions to avoid

Avoid temperature over 50°C, sunlight, flame of spark, humidity and mechanical damage. Don't puncture or burn, even after usage. Don't spray over on open flame or a caustic material. Protect from ignition sources – don't smoke during spraying. Protect from children.

10.5 Incompatible materiale

Acids and bases, Oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2)
Build-up of dangerous/toxic fumes possible in cases of fire/high tem-perature.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Toksyczność ostra

Ingredient name	Route of exposure LC50	Species	Result
Acetone	orally	rat	5800 mg/kg
		rat	76000 mg/m3 /4 h
		rabbit / guinea pig	7400 mg/kg
Butane	inhalation	rat	658 mg/l/4h

Irritating effect: Irritating for skin, cause skin flushing, dryness and cracking.
Irritating to eyes, cause flushing, ache, lacrimation.
Irritating to respiratory system, inhalation may cause irritation respiratory system, cough, headache, dizziness, dementia, weakness, nausea and vomit.
Irritating to alimentary system, cause irritation mucous membrane of throat, gullet and stomach, stomachache, nausea, vomit.

Allergenic effect: not applicable

Mutagenic effect: not mutagenic
Carcinogenic effect: not carcinogenic
Other toxicological information: not applicable

Section 12: Ecological information

12.1. Toxicity

Ingredient name	Dose / time of exposure / method	Species	Results
Acetone	mg/dm3 /48 godz	Daphnia pulex	8800
	mg/dm3 /24 godz	Artemia salina	2100
	mg/dm3 /8 dn	Microcystis aeruginosa	530
	mg/dm3 /96 godz	Prorocentrum minimum	430
	5540 mg/dm3 /96 godz	Oncorhynchus mykiss	5540
	mg/dm3 /96 godz	Alburnus alburnus	11000

12.2. Persistence and degradability

Acetone is resistant to hydrolysis (degradation studies soil). During the photolysis decomposes into carbon monoxide, carbon dioxide, methanol and formaldehyde. The substance is readily biodegradable. Propane-

Butane in the air is quickly dispersed.

12.3. Bioaccumulative potential

Acetone: Factor of Bioconcentration: BCF = 3 (calculated value).
Propane -butane: The product does not accumulate.

12.4. Mobility in soil

Propane-butane: The product does not accumulate.
Acetone: Test of the adsorption / desorption - sorption, soil Kd of 1.5 dm3 / kg at 20 ° C. Acetone can penetrate into the soil and can be transported by groundwater.

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

Acetone: Do not contaminate water, wastewater and soil.
Propane-Butane: sewage contamination does not occur.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: Do not dispose into the environment (sewers, sewage, water, soil) transport to legally collection point.

Packaging: Transport the complete package for disposal. Destroy empty cans such as cans under pressure.

Codes of hazardous waste (EWC):
07 01 04 * -other organic solvents, washing liquids and mother liquors
16 05 04 - gases in pressure containers (including halons) containing dangerous substances
Packaging waste:
15 01 10 * - packaging containing residues of or contaminated by dangerous
15 01 01 - paper and cardboard

Section 14: Transport information

information about transport	**14.1. UN number (UN number)**	**14.2. Normal shipping name**	**14.3. Hazard class (es) in transport**	**14.4. Packing group**	**14.5. hazards for environment**
land transport **ADR**	Aerosols, flammable (includes propane, butane, isobutane)	1950	Class: 2 Labels: 2.1	not applicable	No
Sea transport **IMDG**	Aerosols, flammable (includes propane, butane, isobutane)	1950	Class: 2 Labels: 2.1	not applicable	No
waters inland transport **ADN/ADNR**	Aerosols, flammable (includes propane, butane, isobutane)	1950	Class: 2 Labels: 2.1	not applicable	No

Section 15: Regulatory information

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

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the registration, evaluation, authorization and restriction of chemicals (REACH) and establishment of the European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769 / EEC and Commission Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC
2. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the registration, evaluation, authorization and restriction of chemicals (REACH)
3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) No 1907/2006 as amended.
4. Act of 20 March 2015 amending the act on chemical substances and their mixtures (Journal of Laws of 2015, item 675 as amended).
5. Announcement of the Speaker of the Sejm of the Republic of Poland of June 6, 2019 regarding the publication of a uniform text of the Act on chemical substances and their mixtures (Journal of Laws of 2019, item 1225)
6. Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest allowable concentrations and intensities of factors harmful to health in the work environment (as amended)
7. Regulation of the Minister of Labor and Social Policy of 4 August 2011 amending the regulation on general provisions on occupational health and safety (Journal of Laws 2011 No. 173 item 1034)
8. Announcement of the Speaker of the Sejm of the Republic of Poland of February 1, 2019 regarding the publication of a uniform text of the Act on the carriage of dangerous goods (Journal of Laws of 2019, item 382).
9. Government Declaration of 18 February 2019 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws 2019 item 769).
10. Act of 14 December 2012 on waste with subsequent amendments (Journal of Laws 2013 item 21).
11. Act of 13 June 2013 on the management of packaging and packaging waste as amended (Journal of Laws of 2013, item 888).
12. Regulation of the Minister of Climate of 2 January 2020 on the waste catalog (Journal of Laws 2020 item 10).
13. Ordinance of the Minister of Entrepreneurship and Technology of 10 May 2019 repealing the ordinance on the essential requirements for personal protective equipment (Journal of Laws of 2019, item 966).
14. Regulation of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws 2011 No. 33 item 166)
15. Directive (EU) 2018/851 of the European Parliament and of the Council of 30 May 2018 amending Directive 2008/98 / EC on waste.
16. Directive (EU) 2018/852 of the European Parliament and of the Council of 30 May 2018 amending Directive 94/62 / EC on packaging and packaging waste.
17. Act of 20 July 2017 - Water Law (Journal of Laws 2017 item 1566).
18. Act of 29 July 2005 on counteracting drug addiction (z. U. 2005 No. 179 item 1485)
19. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004. on detergents, consolidated text as amended on 19.04.2012:

15.2. Chemical safety assessment
Chemical safety assessment was carried out for
the components:
- Acetone (propan-2-one)

Section 16: Other information

H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation
EUH066 Repeated exposure may cause skin dryness or cracking.

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P211 Do not spray on an open flame or other ignition source.
P260 Do not breathe vapours/spray.

P280 Wear protective gloves/eye protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Eye Irrit.- Irritating to eyes
Flam. Aerosol- flammable aerosol
STOT SE - Operation target organ toxicity - single exposure single exposure
Flam. Gas 1- extremely flammable gas, cat 1
Flam. Liq.2- combustible liquid, Cat 2

Changes in relation to previous version:
-Update No.3 - made changes in the safety data sheet in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010. Annex I.
-Update No. 4 - Changes have been made in Sections 1, 2, 3, 16.
-Update No. 5 - Changes have been made in Sections 1, 15.
-Update No. 6 - Changes have been made in Sections 3, 15.
-Update No. 7 - Changes have been made in Sections 1, 15.

The information contained in the Safety Data Sheet is based on current state of knowledge and applies to product with its identified use. The information is intended to aid the user in controlling the handling risks and not to guarantee product quality. If conditions of product use are not under manufacturer control, responsibility for safe
use falls to the user. Employer is obliged to inform all employees working with the product, about possible hazards and personal protection specified in Safety Data Sheet.